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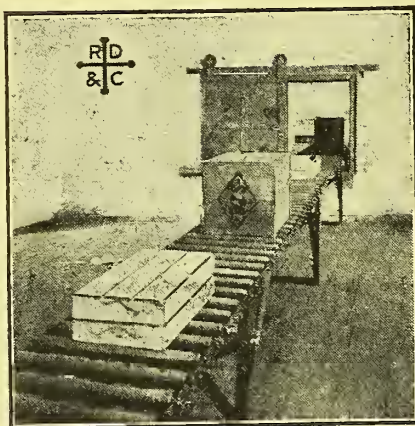
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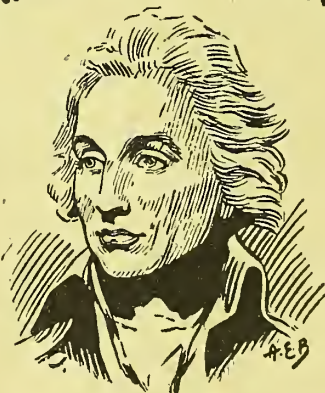
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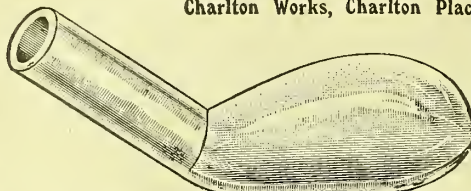
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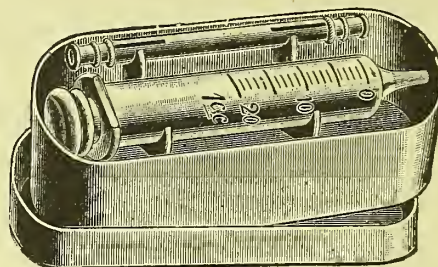
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"Rodine" gasses the enemy in his own dug-outs."

Mr. T. BATH,
Collingham, Yorks,
writes:—"Enclosed
find P.O. for the 2
tins of your

Rodine 'RAT Poison

which has proved
most effectual. The
first dose, from what
I can see, has gassed
the enemy in his
own dug-outs."

'Rodine' gives satis-
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SODA SULPHITE, SODA CARBONATE, AMM. SULPHOCYANIDE,
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DEVELOPERS, TONINGS, &c., for AMATEUR TRADE,
Packed in CARTRIDGES, PACKETS, SCALOIDS & SOLUTIONS.



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INVITE the Trade to take up the following valuable
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well known and valued by the Public in many parts
of the country.

	P.A.T.A.	Protected Retail Price.	Dozen Net.
*LOSALL'S SALT (well advertised), tins		9d.	6/6
* " " " " " " "		1/6	13/-
* " " " " " " bottles in cartons		1/6	13/-

**Losall's Salt sells so well, surely it must pay Pharmacists to stock such a big profit-bearing protected line.*

Owing to the great increase in the cost of raw material and containers for our Losall's Salt, we are compelled to raise the trade prices, but the retail protected prices are proportionately increased.

LOSALL'S COMPOUND SULPHUR SOAP.

A valuable emollient medicated skin soap, } 1/6 13/6
especially suitable for use in Eczema

Chemists requiring effective advertising matter for Losall's Salt, &c., will, on application direct to Lofthouse & Saltmer, receive a liberal supply of Dummies, Showcards, Window Slips, Price Tickets, &c., Carriage Paid, whether or no they have an account open with the Firm.

The "MILNER" STRAW HAT CLEANER

Sells well everywhere. 2d.



It is easily used and
gives satisfaction.

6 doz. 7/- net.

12 " 13/- "

Carriage paid.

2 gross 2½ % 5 gross 5 % 10 gross 7½ %

13 to dozen for cash with order.

MILNER'S CHEMICAL CO.
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"FARRISOL" **White Medicinal Oil,**

— ENGLISH MADE — **B.P.**

(PARAFFINUM LIQUIDUM).

Guaranteed to exactly conform to B.P. tests.

RECOMMENDED AND ADOPTED BY THE HIGHEST MEDICAL AUTHORITIES.
ABSOLUTELY ODOURLESS AND TASTELESS.

Consumers should insist upon a thorough test, as there are so-called white oils on the market which lack the pure ingredients and the special treatment absolutely essential to produce the B.P. article. By purchasing from Charles Farris you secure the guarantee of an old-established House and complete satisfaction.

Bees Wax, Spermaceti, Tallow, Paraffin Wax, Candles, Lubricating Oils.
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Large Stocks always Ready for Immediate Delivery.

The only actual Manufacturing Wax Chandler and Oil Refiner in the City of London.

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Telephones—London Wall 9397 & 9398. Telegrams—"Waxiness, Led, London."

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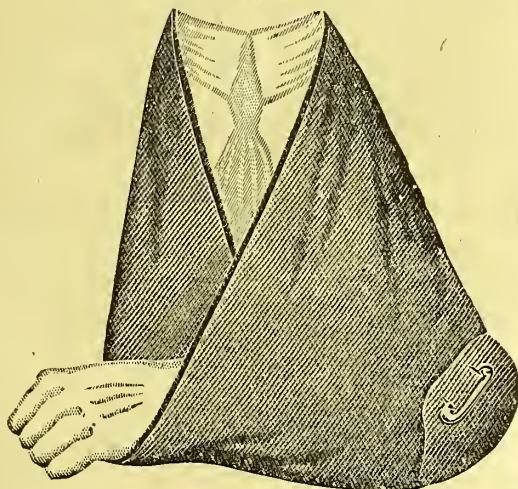
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Maw's Page.

NUMBER 334.

MARCH 9, 1918.

'CELLA' ARM SLING KNITTED NOT WOVEN



THIS Arm Sling is a standard size plain triangular bandage — i.e. 54 in. at its longest measurement — and is therefore of the simplest in adjustment.

Its material and construction permit of a certain amount of elasticity, which adds very considerably to the comfort of the wearer, and being perfectly ventilated, it is most suitable for use at any time.

The Sling is an ideal one for an officer's use, as it is plain khaki in colour, while it is equally a neat and inconspicuous support for civilian use.

PRICE **11/6** PER DOZ.

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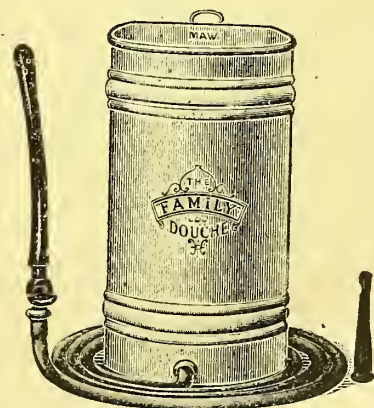
Strong white enamelled tin, fitted with 6 feet I.R. tubing, set of vulcanite fittings complete in carton. Entirely British.

WITH **A** QUALITY TUBING.

2-pt.	3-pt.	4-pt.
50/-	53/-	58/- doz.

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45/-	48/6	53/- doz.



HOURS OF BUSINESS: 8.30 a.m.—5.30 p.m.

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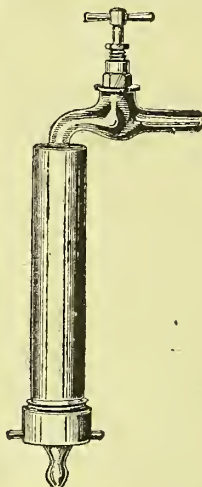
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PURE DRINKING WATER.



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Pasteur
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Filter.**

OFFICIAL GOVERNMENT
STATEMENT:

Wherever the **PASTEUR
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TYPHOID FEVER has
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CHELTINE FOODS CO., CHELTENHAM.

FLOUR, BISCUITS, BREAD, FOOD, Etc.

Highly Recommended by Medical Profession.

INFANTS' FOODS packed under Chemists' "OWN NAMES."

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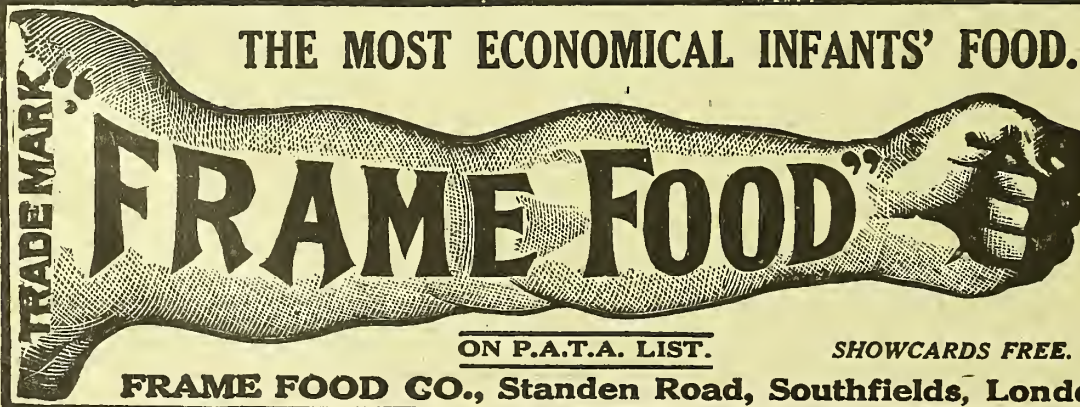
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Prepared in strict accordance with the Formula of the British Pharmacopœia.

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THE MOST ECONOMICAL INFANTS' FOOD.



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SHOWCARDS FREE.

FRAME FOOD CO., Standen Road, Southfields, London.

Recommend it for Convalescence



Doctors prescribe Turtle Soup in all cases where the patient cannot retain any other nutriment.

FREEMAN'S REAL TURTLE EXTRACT

is the real meat of selected West Indian Turtles, compressed into handy tablets; it provides all the delicacy and nourishment of soup made from fresh killed turtles, and is quickly prepared as it requires nothing but boiling water.

For hospitals, nursing and convalescent homes it can be strongly recommended as the best, safest and handiest invigorator obtainable.

The trade terms are particularly favourable, and particulars can be obtained by writing to

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"GLACIALINE"

The Original and Most Effective Food Preservative

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Full directions for use enclosed in every package.

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**DISORDERS of the LIVER, GOUT,
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Two or three Pastilles after each meal facilitate Digestion.

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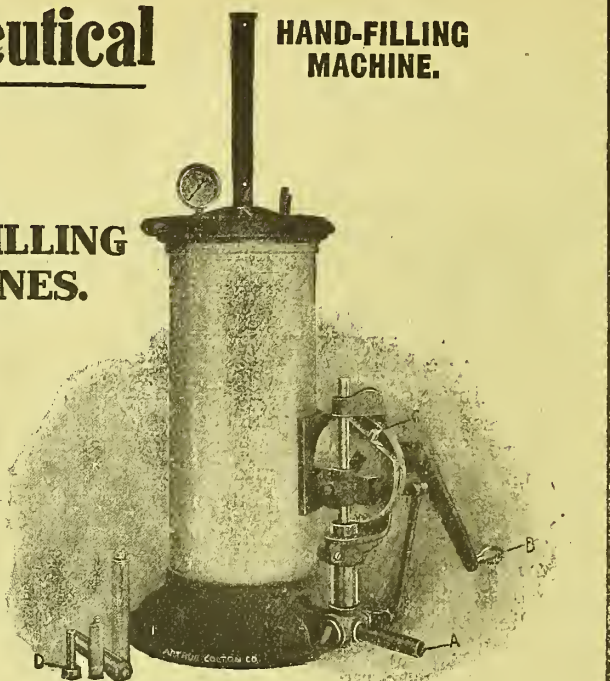
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**COLLAPSIBLE TUBE FILLING
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**TABLET AND
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FOR NEARLY ALL INDUSTRIES IN
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SALICYLIC ACID & SULPHONATED,
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PLANTS FOR NITRIC, SULPHURIC &
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Patent 6916.



TO MANUFACTURING AND WHOLESALE DRUGGISTS, &c.

We beg to call attention to the fact that our well known Patent Stills are made for heating by steam pressure. Where this is available it forms a very cheap and efficient method of obtaining distilled water. Any pressure will suit from 10 to 200 lb., made in various sizes to produce from 1½ to 15 gallons PER HOUR. Cost of distilled water made this way is practically nil. As with our Gas Stills, these are perfectly automatic. Prices as below:—

For producing up to			
1½ gallons per hour,	£3	10	0
" 5 "	"	10	0
" 9 "	"	12	0
" 15 "	"	16	0

Plus 50 %
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Advance.

The few most important places we give below afford evidence of the quality, efficiency and economy of the Steam Stills: National Physiological Laboratory, 2 in use; Imperial College of Science, 6 in use; University of Wales; Pharmaceutical Society; Guy's Hospital Bacteriological Department; and many of the leading Breweries and Drug Houses, etc. etc.

Pamphlets & particulars forwarded on application

Estimates submitted free if required
for supplying and fitting complete.

BROWN & SON, Albion Works, 9 Wedmore St., Holloway, N.

USE UNSKILLED LABOUR, DO WORK
QUICKER, SAVE LABOUR.

Labour-Saving Machinery

FOR GLASS BOTTLE FILLING,
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FLASK, CAN AND DRUM FILLING.

Machines for filling all liquids and semi-liquids in any shape
or size of receptacle. Write for particulars.

**Roberts' Patent Filling Machine Co.
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Labour-Saving Machinery, in comparison to what it can
save, NEVER COST SO LITTLE AS NOW.

1868 to 1918



"The entire object of true education is to make people not merely do the right things, but to enjoy the right things."—Ruskin.

Secure a supply

"QUOTATIONS"

We hope to announce the successful quotation, by the kindly courtesy of the Editor of the "C. & D." in the "Trade Notice" column of this issue.

of ailment Tablets in tins whilst tins are available. We can supply each of the following, with the exception of 7½d. Headache, but we are expecting a delivery of these and can consequently book orders.

The effective little display we illustrate can be put in position in five minutes. The talk cards and show outers get busy immediately they are put into position, and they relieve you of any personal effort to sell the goods. The cards are supplied free.

**Ayrton,
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The Series includes:—

Anti-Constipation Tablets	3/9 doz.,	42/- gross;	1/- size	6/9 doz.,	78/- gross
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BAKING POWDER
(Standard Grades, also made up
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SO₂ Free.

NO BLUEING USED.

Specially pure for
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MANBRÉ SACCHARINE
Co., Ltd.,

HAMMERSMITH, LONDON, W. 6.

PRIZE COURT SALE. IN PRIZE.

By Order and for Account of the Marshal of the Admiralty.
To be sold by PUBLIC TENDER.

40 cases AMORPHOUS PHOSPHORUS, ex "John G. McCullogh."

8 casks BICHROMATE OF SODA, ex Rotterdam (per "Maastroom") (about 2½ tons), lying in London.

18 barrels ACETATE OF LEAD, ex "Gyldenpris" (about 5 tons), lying in Bristol.

4,319 sacks (about) POWDERED BORAX, ex "Tanafjord" (about 200 tons), lying in Liverpool.

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To be sold subject to Government restrictions as to export. Further particulars may be obtained on application to D. W. Greenhough & Son, Brokers, 21 Mincing Lane, London, E.C.3.

EUCALYPTUS OIL (RECTIFIED).

Eucalyptol Content ... 70/80 %
Optical Rotation ... 0 to 1
Specific Gravity ... '919 to '928

Absolutely Free from Phellandrene.

Quotations by cable. Wholesale Trade only.

BURNSIDE & COMPANY
Eucalyptus Oil Distillers,
VICTORIA, AUSTRALIA.

New Postal Address—Cables—"Burnside Company,"
439 Flinders Lane, Melbourne. Melbourne.

Saccharin ^{01 gram.} in each Tablet.

Tablets.

Pure 550
Saccharin only.

IN SCREW-CAPPED BOTTLES:

100's ... 24/- per doz., less 25 %
200's ... 45/- " "

IN AIR-TIGHT CONTAINERS:

500's ... 105/- per doz., less 25 %

IN BULK: 1,000's ... 12/6 per 1,000 net.

" 5,000's ... 12/- " "

" 10,000's ... 11/6 " "

Per lb. (7,000 tablets) 82/6 net.

Carriage Paid.

Cash with Order.

MANUFACTURERS:

The Cooper Laboratory
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BLOCK LIQUORICE

PURE SICILIAN.

Light Carbonate of Magnesia

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Lanoline, finest B.P.

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EUCALYPTUS OIL

70/75 % B.P.

MALLAGH & CO. (T. H. Mallagh, F.C.S.),
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Selling Agents for SANDROCK TONIC MINERAL WATER.
The Best Natural British Tonic Water

Telephone : Avenue 896.

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NAIL-STONE**T.M.**

is found to be the very best polish of its kind now, just as it was in pre-war days — there's the reason for its fine continuous sale. Perro is still handsomely packed in sale-compelling counter outers. That's why sales are easy to create. Just show it, that's all!

4/6 PER DOZ.P.A.T.A. **7¹/₂d.**
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HAVE YOU HAD YOUR

3 Doz. with the $\frac{1}{2}$ Doz.

BONUS YET?

SEND IN
NOW.**FROZEN
BRILLANTINE**

never was more appreciated than it is to-day. So handy, economical in use, non-sticky and cleanly in application. The useful oval aluminium tin with its hinge and hasp facilitates covering up and keeping the dressing-table tidy. Moreover, the label in "northern blue" renders the *tout ensemble* an attractive and desirable package.

5/- PER DOZ.**PER TIN 9^d.**

This is an excellent profit, and, like Perro, it's only necessary to show it to sell. With all six dozen orders we are giving our new "Sailor Boy" screen idea that is being asked for by everyone. Would you like one?

WITH ALL ORDERS FOR
6 DOZEN T.M. BRILLANTINE
 $\frac{1}{2}$ DOZEN GIVEN AS BONUS

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O S W L A N D
L A N E,
LONDON, E.C.4.

BRITISH MADE**TIN FOIL**

Highly polished foils—printed, lacquered, embossed or plain. Guaranteed free from lead for tobacco, cigarettes, food-stuffs, etc. In sheets or reels—large or small quantities.

Also collapsible tubes in pure tin, pure lead or lead-coated with tin for rubber solution, artists' colours, tooth pastes, and other toilet preparations.

Manufactured by

Venesta Ltd.
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GOLD MEDAL, XVIIth International Congress of Medicine, 1913.

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LOCAL ANÆSTHETIC

Recommended by H.M. Home Office as the best and most efficient
SUBSTITUTE FOR COCAINE.

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CHEAPER THAN COCAINE.

(NO LICENCE REQUIRED.)

As supplied for the past 10 years. AT PRE-WAR PRICES.

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the perfection of Petroleum Jelly

in qualities, white, lemon, yellow
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Packed in barrels, kegs, and smaller
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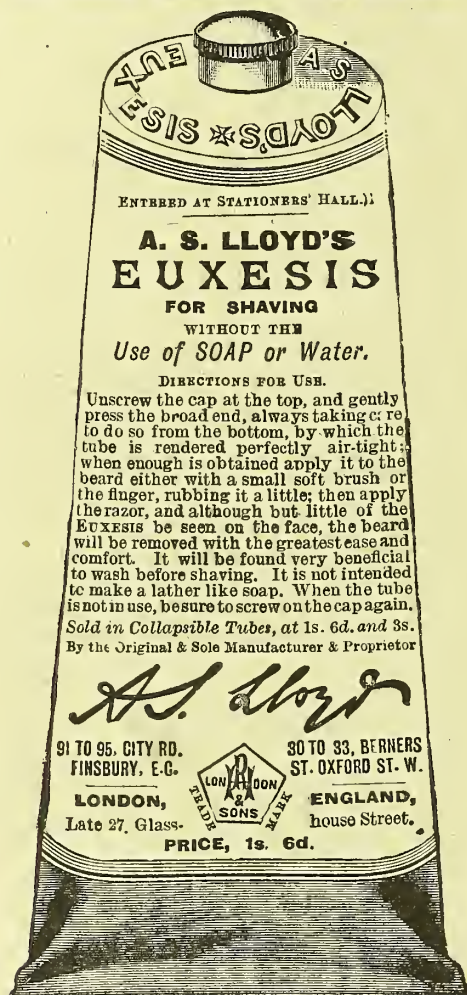
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A. S. LLOYD'S EUXESIS

(THE GENUINE.)

For Shaving without Soap, Water or Brush.



Sold by all Perfumers and Chemists throughout the World.

R. HOVENDEN & SONS having purchased, under an administration suit, the Business of the late A. S. LLOYD, with the Receipt, Trade-mark, and Goodwill of the celebrated Euxesis, the Trade are cautioned that the original and genuine Euxesis is now manufactured at our Factory ONLY, and may be obtained at either of our Warehouses at the following prices:

10/6 per dozen; 10/3 by the 6 dozen.
Retail at 1/6 per tube; 3/- size to order.

NOTICE.—THE GENUINE A. S. LLOYD'S EUXESIS bears a label printed in BLACK only on a Yellow ground, with our Trade Mark at the bottom, as illustration.

Proprietors: R. HOVENDEN & SONS, LTD.,
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We offer You

Forceful Publicity
Attractive Showcards
Handsome Profits
Goods that Sell

if you handle Anzora Cream and Anzora Viola—the finest fixatives for the hair ever produced. Write to-day for full particulars and Showcards. Don't stock substitutes, for they will only disappoint customers.

TRADE { 11/6 per dozen, retails at 18/-
TERMS { 19/6 per dozen, retails at 30/-



ANZORA PERFUMERY Co.
28, 32, 34 Willesden Lane, LONDON, N.W. 6.

ROBARTES' FOUR

Diadem Vanishing Cream.

The New Cream for discerning women, put up in original white globes, P.A.T.A. 3/9, costs you 30/- doz.

Diadem Face Powder.

The fragrant powder in the dainty striped box. P.A.T.A. 2/6, costs you 20/- doz.

Decoltene.

The wonderful, pleasant, effective liquid Hair Remover. Sells and gets repeats. P.A.T.A. 3/9, costs you 30/- doz.

Dinkie.

The dainty deodorant that eliminates all odour of perspiration, P.A.T.A. 2/6, costs you 20/- doz.

Ask your Wholesaler. Artistic showcards, etc. with orders.
Robartes, Ltd., 128 Jermyn St., London, S.W. 1.

"Strodonia" VANISHING CREAM

is extensively advertised. Don't miss sales by being out of stock. Two sizes—7½d. @ 5/6, 1/- @ 9/- per doz.; from London Wholesalers.

For displaying a small showcard, we make the following offer on INITIAL DIRECT ORDERS:—

1½ dozen 7½d.	selling for 11 3
1/4 " 1/-	" " 9 0

For 10/- cash with order, carriage paid. 20 3

SPECIAL TERMS FOR LARGE BUYERS.

STRODE COSH & PENFOLD, Manufacturing Chemists,
LOWER UNION ST., BRISTOL.

A. S. LLOYD'S EUXESIS.

For Shaving without Soap, Water, or Brush.

CAUTION.

The Labels on GENUINE EUXESIS bear two signatures—
A. S. Lloyd in Black Ink, and that of his Widow,
Aimée Lloyd, in RED. Refuse any other.

*Sole Manufacturers and
Proprietors:*

AIMÉE LLOYD & CO.

23 PANTON STREET (formerly named Spur Street),
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N.B.—When ordering from Wholesale Houses write LLOYD'S EUXESIS (WIDOW'S).

"LESCOL" FLORAL PERFUMES

NOTICE !

*We strongly advise Chemists before
purchasing their Toilet Specialities to
send us particulars of their require-
ments, and complete Price List will be
sent, or one of our representatives will
call with full set of samples when in
their vicinity.*

We are holding a large stock at remunerative prices

LESCOL PERFUMERY CO.,

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Don't Miss Sales

WRITE US IF YOU CANNOT OBTAIN THE UNDERMENTIONED GOODS PROMPTLY

**Bisurated Magnesia
Bitrate of Tar
Bitro-Phosphate
Boracinal
Floxoin Lotion
Lavona Hair Tonic
Lavona Shampoo Powders
Phormoid
Salrado Tonic
Sulthine Conc.**

These goods are in constant demand and if you cannot supply you miss profitable sales.
We can help you avoid this loss as we hold large stocks and guarantee prompt delivery of any quantity. . . .

Let Us Help You

**THE INTERNATIONAL CHEMICAL COMPANY LIMITED
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An Outstanding Success !

ZOKA



Bonus Offer
for March :

3 doz. ZOKA 1/- at 6/10 = **20/6**
 $\frac{1}{2}$ „ „ Free

Showing over 100 % Profit.

Liberally Advertised and in Brisk Demand.

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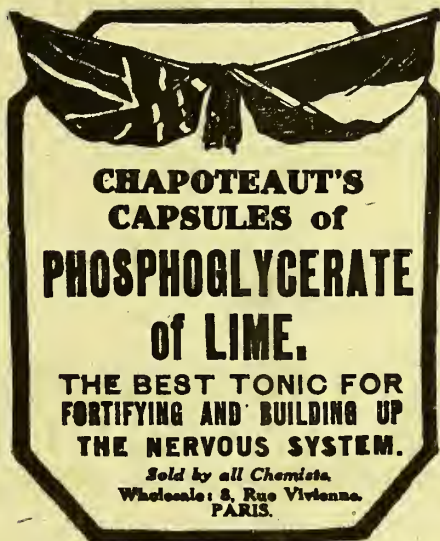
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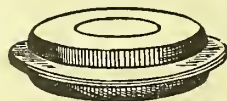
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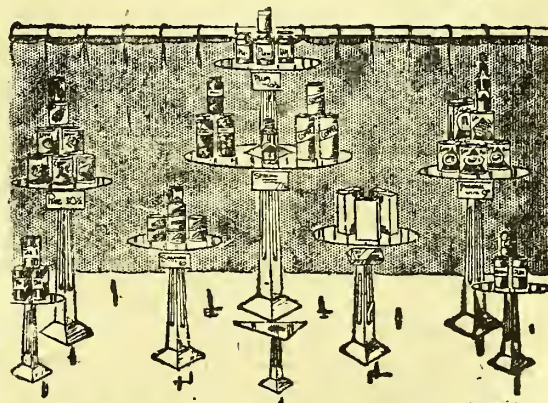
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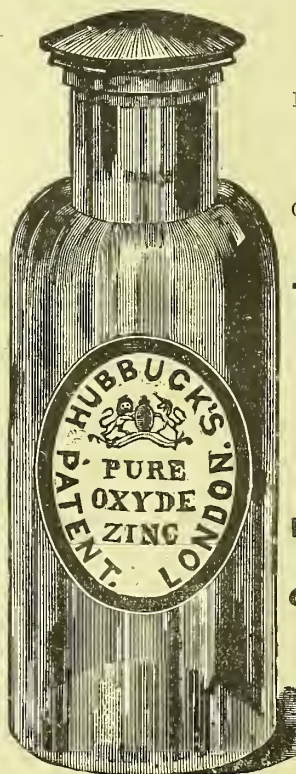
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Coming Events.

Monday, March 11.

British Industries Fair, 1918, London Dock, Pennington Street, E. 1, at 10 A.M. Opens and remains open until March 22. Tickets of admission are obtainable from the Director, British Industries Fair, Board of Trade, 10 Basinghall Street, E.C. 2.

Tuesday, March 12

Association of Women Pharmacists, Dr. Williams' Library, Gordon Square, London, W.C., at 7 P.M. Miss E. K. Fordyce on "Experiences in East Russia and Galicia, 1916-17."

Eastbourne Pharmacists' Association, 2a Terminus Buildings, at 8.30 P.M. Meeting.

South-East London Pharmacists' Association, Maitland House, Greenwich, at 8.45 P.M. Mr. J. P. Gilmour, Editor of "The Pharmaceutical Journal," on "Forty Years in Pharmacy."

Wednesday, March 13.

Liverpool Chemists' Association, Royal Institution, Colquitt Street, at 8 P.M. Mr. W. H. Saunders on "Face-values."

Manchester Pharmaceutical Association, Chess Club Rooms, 65 Market Street, at 3 P.M. Mr. N. H. Butcher on "Pharmacy in a Modern Hospital—Civil and Military."

Thursday, March 14.

Salford Pharmacists' Association, 40 The Crescent, at 8.30 P.M. Mr. William Kirkby, M.Sc., on "Laws Affecting the Retail Pharmacist." All pharmacists and assistants are invited.

West Ham, etc., Association of Pharmacists, Progressive Pharmacy Club, Arundel Hotel, Victoria Embankment, London, W.C., at 6 P.M., Social evening. Tickets (2s. 6d. each, two or more 2s. 3d. each) from Mr. Alex. Catto, 49 Cranbrook Road, Ilford.

European War News.

Outdoor Photography.

Orders have been made under the Defence of the Realm Act prohibiting after March 11 the making of any photograph, sketch, plan, model, "or other representation of any place or thing" within the area set out below. No person in this area shall, without lawful authority or excuse, have in his possession any photographic or other apparatus, "or other material, or thing suitable for use in making any such representation." Nothing in the Order is to be construed as prohibiting the making of a photograph, sketch, plan, model, or other representation in any photographic or other studio, or a private dwelling-house, or the garden or other premises attached thereto, of any person or things therein, or as prohibiting the possession of photographic or other apparatus, materials, or things intended solely for use in such studio, dwelling-house, or other premises. The area affected consists of:

Metropolitan Police District.—All places (except urban districts of Erith and Bexley and parish of Crayford) which are outside a radius of twelve miles from Charing Cross Railway Station.

Essex.—Municipal Borough of Chelmsford; urban districts of Epping, Romford, Brentwood, and Grays; parts of rural districts of Epping and Romford not included in Metropolitan Police District, rural districts of Ongar and Billericay, and part of rural district of Orsett not included in Thames and Medway area; parishes of Roxwell, Writtle, Widford, Ingatstone, and Fryering, Margaretting Stock, Buttsbury, Great Baddow, West Hanningfield, South Hanningfield, Runwell, Rawreth, Rayleigh, Thundersley, South Benfleet, Hadleigh, and Canvey Island.

Kent.—Urban districts of Dartford, Sevenoaks, and Wrotham; rural districts of Dartford (except parish of Crayford), part of rural district of Bromley not included in Metropolitan Police District, and rural district of Malling (except parishes of East Peckham, Wouldham, Burham, Aylesford, and Allington); parishes of Halstead, Shorcham, Westerham, Brasted, Sundridge, Chevening, Duntun Green, Riverhead, Sevenoaks, Weald, Otford, Kemsing, and Seal.

Surrey.—Urban districts of Leatherhead and Caterham; parishes of Ashstead, Headley, Mickleham, Walton-on-the-Hill, Kingswood, Chipstead, Gatton, Merstham, and Chalden; and part of rural district of Godstone lying north of Redhill and Tonbridge branch of South Eastern and Chatham Railway.

Personalia.

MR. H. G. GRANTHAM (representative in Ireland and the West of Scotland of Allen & Hanburys, Ltd.) has been appointed Officer Commanding Motor Ambulances for the Mounted Desert Corps in Palestine, under Lieut.-General Sir H. G. Chauvel, K.C.M.G., C.B.

SECOND-LIEUTENANT H. N. STROUD, son of Mr. H. N. Stroud, a director of John Richardson & Co. (Leicester), Ltd., has been raised to the rank of captain. Captain Stroud, who was a member of the Leicestershire Yeomanry in pre-war times, volunteered for active service on mobilisation, and reaching France early in November 1914, was in the fighting line near Ypres until October 1915, when he was given a commission. In February 1917 he went out to Egypt, was transferred, and has fought with his present regiment during the Palestine campaign. He now wears the Red, White and Blue Ribbon as an "Old Contemptible."

Miscellaneous.

BELGIAN DOCTORS' AND PHARMACISTS' RELIEF FUND.—Among the subscriptions received since our last announcement is the following: Allen & Hanburys, Ltd., 10s. 10s.

TRADE-MARKS AVOIDED.—The three trade-marks "Lithol" (241,900, 307,556, and 309,051) have been avoided. The marks were registered in the name of the Badische Anilin und Soda Fabrik.

BLACK-LISTED FIRMS IN SPAIN.—In the latest list of additions to the statutory list of firms of enemy nationality we notice the following in Spain: Comercial de Productos Quimicos, Sociedad Anonima; Paseo de San Juan 78, Barcelona; Luis (or Ludwig) Utz, Fabrica de Productos Quimicos, Paseo de Mata 13 or Primero Octubre 10, Reus; and the Société de Cremor Acido Tartarico, Reus.

PRICE OF DESICCATED COCONUT.—The Desiccated Coconut (Maximum Prices) Order, 1918, made by the Food Controller, fixes a maximum wholesale price from March 2 of 4l. 10s. per cwt., and a maximum retail price on and after March 11 of 1s. per lb. [The foregoing announcement comes as a shock to dealers, as the price current in Mincing Lane was approximately 210s. to 220s. per cwt., compared with a pre-war price of about 25s. to 30s. per cwt. Considerable profits have been made in this food-product since the war, and dealers have been able to exact their own terms on the small available supplies, so that no great sympathy is felt for those who are regarded as "profiteers."—ED.]

Corner for Students.

Conducted by Leonard Dobbin, Ph.D.

Communications should be addressed "Corner for Students, 'The Chemist and Druggist,' 42 Cannon Street, London, E.C. 4."

Report on February Analytical Exercise.

THE powder distributed to students on February 5 contained 1 part by weight of mercuric iodide, 1 part of mercuric sulphide, and 8 parts of zinc sulphate. The calculated composition of such a mixture is:

Hg	...	...	...	13.0
Zn	...	...	...	18.2
I	...	...	...	5.6
S	...	...	...	1.4
SO ₄	...	...	...	26.7
H ₂ O	...	...	...	35.1
				100.0

Samples of the powder were distributed to thirty-five students, and seventeen reports were submitted for examination. The failures in the detection of the main constituents were: Mercury, 1; zinc, 1; iodine, 6; sulphur, 11; sulphuric-acid radical, 1. Five correspondents failed to observe the abundant evolution of water when the powder was heated in a dry test-tube.

This exercise demanded careful and intelligent treatment to ensure the detection of all the constituents. The brilliant colour of the powder suggested to numerous correspondents the presence of mercuric sulphide or iodide, and to some that of mercuric oxide or red oxide of lead; but in most cases endeavours were made to prove the presence of one or other of these, while it was only in very few instances that the possibility of more than one being present seems to have been seriously considered. In the general remarks upon last month's exercise a tolerably straight hint was given regarding the occasional calculated introduction into mixtures sent out for competitive analysis of more than one constituent which might present some given feature, with a view to ascertaining whether further search would be made after one such substance had been detected. Perhaps the majority of our correspondents did not expect so early a repetition of this test, and, having detected mercury and sulphur or iodine, were satisfied that the colour of the powder was sufficiently explained thereby, and did not test exhaustively for both sulphur and iodine. Whatever the explanation, only three students succeeded in detecting both sulphide and iodide.

Conclusive proof of the presence of an iodide was adduced in very few cases. Prolonged boiling of the powder with water and sodium carbonate yielded a solution which contained no more than traces of dissolved iodide, and did not give convincing evidence for iodide when tested, after appropriate acidification, with silver nitrate or with chlorine and carbon bisulphide or chloroform. (And it may be stated here, incidentally, that the sodium-carbonate solution did not contain recognisable traces of a sulphide, and—reports to the contrary by several students notwithstanding—did not give a black precipitate with silver nitrate.) Again, the powder did not give off iodine when heated alone, when heated with sulphuric acid, or when heated with sulphuric acid and manganese dioxide, the mercuric iodide simply subliming without undergoing decomposition (although here also several students report the contrary). Iodine was evolved, however, when the powder was heated with concentrated nitric acid, but the colour of its vapour was completely obscured by the ruddy nitrous fumes produced by the action of the nitric acid on the mercuric sulphide, and only the iodine which solidified in the cool upper part of the tube was readily recognised. The best method of decomposing the mercuric compounds consisted in heating the powder in a sublimation-tube with calcium oxide or hydroxide, whereby mercury was expelled as vapour, while calcium iodide and sulphide remained behind, and could be detected in the residue by aid of the usual tests.

On this occasion a larger proportion of correspondents than usual inaccurately described the powder as insoluble, instead of partially soluble, in water.

PRIZES.

The First Prize for the best analysis has been awarded to J. W. B. YOUNG, 33 Square, Kelso.

The Second Prize has been awarded to

JOHN J. WITTEN, 51 Hendon Road, Sunderland.

First Prize.—Any scientific book that is published at a price not greatly exceeding half-a-guinea may be taken as a first prize.

Second Prize.—Any scientific book which is sold for about five shillings may be taken as a second prize.

The students to whom prizes are awarded are requested to write at once to the Publisher naming the book or books they select.

MARKS AWARDED FOR ANALYSES.

1. Correspondents who are unqualified:

J. W. B. Young (1st Prize)	...	...	96	T. E. Melonia	...	...	77
J. J. Witten (2nd Prize)	...	...	90	Samarium	...	...	75
A. V. K.	...	...	86	The Bing Boys	...	...	69
Quercus	...	...	84	E. M. Oliver	...	...	68
Somme	...	...	83	Vermelles	...	...	51
Corse	80	Mark	36
Dunjam	80	Darwen	21
Oro	77				

2. Correspondent who is qualified:

Snavei	81
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TO CORRESPONDENTS.

J. W. B. Young.—Note that the liberation of sulphur dioxide and the separation of sulphur on treating a thio-sulphate with hydrochloric acid occur simultaneously, both being products of the decomposition of the unstable thio-sulphuric acid.

J. J. Witten.—Unless the portion of the powder which was insoluble in water was thoroughly extracted and washed with water, the aqua-regia solution prepared from it was certain to contain some sulphuric-acid radical from the original zinc sulphate, irrespective of any that might result from the oxidation of an insoluble sulphide; hence your detection of the sulphuric-acid radical in this solution was not a complete proof of the presence of a sulphide.

A. V. K.—It seems from your report that you assumed that no part of the hydrogen-sulphide precipitate dissolved in nitric acid because it did not all dissolve. The assumption happened to be correct on this occasion, but tests for lead, bismuth, etc., should not have been omitted.

Corse.—Attempts to confirm the presence of arsenic, which you report, proved unsuccessful.

Oro and Others.—White fumes observed when the powder was heated with concentrated sulphuric acid were due to the latter, and were formed in the absence as well as in the presence of the powder.

T. E.—After adding sodium phosphato as a test for magnesium you evaporated to dryness, and obtained a residue which did not give indications of sodium in the flame-test. Perhaps you used different portions of the solution for the two tests, but this does not appear from your report.

Melonia.—Careful examination for aluminium, potassium, and ammonium failed to give positive results in our tests. Your report of mercury as mercurous compound was surely an inadvertence.

The Bing Boys.—You do not give enough information as to the procedure you adopt, and you state conclusions without offering sufficient evidence in support. The powder did not contain calcium or the phosphoric-acid radical.

E. M. Oliver.—The greater part of the powder was soluble in water. The precipitate produced by hydrogen sulphide in the original acid solution was yellow at first, but it rapidly became black when the gas was passed for some time—a behaviour usually observable when mercuric chloride is present.

Mark.—The presence of cadmium seems to have been suggested by the behaviour with hydrogen sulphide referred to in the reply immediately preceding, and to have been assumed without confirmatory evidence. Only one-fifth of the powder was insoluble in water.

Darwen.—A repetition of the analysis with a mixture prepared by yourself should aid you in tracing the ways in which you fell into so many serious errors. The exercise was evidently rather a stiff one for your stage of proficiency.

Snavei.—The powder did not dissolve completely in solution of potassium iodide, the mercuric sulphide remaining undissolved. We were not able to confirm manganese or boric acid. The discipline of having been required to work with very small quantities of material often proves of great advantage in analyses undertaken otherwise than for practice or competition.

PROGRESS OF THE TOURNAMENT.

Of the students who have submitted reports upon each of the four exercises to date the following have obtained aggregates of 300 marks or over:

Single Seidlitz	...	...	353	Somme	...	...	302
Jayjay	...	...	309	Melonia	...	...	301
Snavei	...	...	304	Samarium	...	...	300

English and Welsh News.

The Editor would be obliged if subscribers would send him marked copies of newspapers containing items of interest for insertion in this or other news sections of the "C. & D."

Guardians' Affairs.

Southampton Guardians are installing an x-ray department.

Lambeth Guardians have renewed for three months their contract with The British Drug Houses, Ltd., for drugs.

Lewisham Guardians have raised the salary of Mr. M. G. Smith, dispenser, to 220*l.* per annum.—Mile End Poor-law Institution has raised the salary of Mr. T. C. Clarke, dispenser, to 180*l.* per annum.

Contracts.

The following tenders have been accepted by the bodies named:

Walthamstow Urban District Council.—The "Sanitas" Co., Ltd., crude Sanitas.

Wandsworth Borough Council.—Adcocks, disinfectants.

Birmingham.

Alderman F. C. Clayton, Ph.C., has contributed 100*l.*, and Mrs. W. A. Cadbury 200*l.*, to the fund for the Women's Hospital Maternity Hospital and Convalescent Homes.

W. & T. Avery, Ltd., are applying to the High Court for permission to insert in their memorandum of association the words "metallurgists" and "chemists" *inter alia*.

Mr. Walford Bodie, the great electric healer, is entertaining crowds at the Hippodrome in Hurst Street. He it was who secured membership of the British Pharmaceutical Conference and made an advertisement of the fact.

The shop at 157 High Street, King's Heath, let on a repairing lease to Mr. Charles Thompson at 55*l.* per annum (expiring September 1925), is to be sold by auction on March 12. It is freehold.

Both wholesaler and retailer are at their wits' end to secure paper and string for packing; one firm has been indulging in an extra-fine and expensive string because no other was obtainable.

"At Worcester on Monday last a dairyman was fined the maximum penalty of 20*l.* for selling milk which contained 91.55 per cent. of water. It was stated that this was one of the worst samples ever brought before the Court." So runs a local item of news. But, as milk normally contains 87 per cent. of water, it is possible that the case is not so heinous as it seems thus stated, and that the magistrates have been misled.

The National Association of Industrial Chemists held a Conference here in the afternoon of March 2, Mr. A. C. J. Charlier (London) presiding. Matters of organisation and propaganda were settled, and in the evening another meeting was held, at which great things were outlined in prospect for the average works chemist.—The conjoint meeting which was to have been convened by the British Association of Chemists and the local officials of the Society of Chemical Industry is now "off."

Liverpool.

Saccharin tablets, which are commanding a ready sale by chemists and druggists, now appear as window-displays in grocery-stores.

Pharmacists are making window-shows in harmony with the dull weather and easterly winds, but drapers present spring fashions. "When winter comes—" Presumably, Liverpool drapers are students of Shelley.

Mr. Henry Peet, F.S.A., chemist and druggist, Adelphi Pharmacy, has read the proofs of the "Ancient Records of Liverpool," a monumental work transcribed and edited by Mr. G. A. Twemlow, Professor of Palaeography in the University of Liverpool.

The United Drug Co. (Rexall) is being urged by the British and Irish agents to manufacture its goods in England. This would meet in a measure one of the objections that has been urged against the invasion of this country by American proprietaries. The annual meeting of the British Rexall Clubs, which was held in Liverpool at the end of January, had decided views on the wisdom of manufacturing the company's products at the Liverpool premises, and promises of assistance in organising the factory were made by some of the speakers.

Sheffield

Several apprentices who have lately reached the age of eighteen have been served with their calling-up notices.

Owbridge's lung tonic is being specially pushed by window-displays. Mr. H. G. Williams, The Moor, has quite a taking show.

One firm of chemists had a surprise lately. The manager, noticing a queue outside the shop, which is in a working-class district, found they were making a raid on paraffin, which had run short elsewhere.

The demand for saccharin tablets has greatly taxed the average pharmacist of late. They are being served in tea-shops in place of sugar—one tablet per customer free, any further supply to be paid for.

A resolution approving the formation of a League of Pharmacists was passed, at a recent meeting of the local Society, by a large majority; but it has not yet been decided what further steps are to be taken in the matter. See p. 47.

In several cases pharmacists have received their calling-up notices again. In case of any more being received by chemists who hold conditional exemption fixed up by the Joint Committee, it has been arranged that they shall be returned to the Secretary of the Pharmaceutical Committee (Mr. Antcliffe), who will take the necessary steps to have them cancelled.

Miscellaneous.

EASTER CLOSING.—Dewsbury Chamber of Trade have recommended shopkeepers of the town to close all day on Good Friday, Easter Monday and Tuesday.

BATH COLLEGE OF PHARMACY.—The examination for the Ostler Scholarship will be held at this school on March 21. Particulars may be obtained from the Secretary.

SALE OF FOOD AND DRUGS ACTS.—The Lambeth public analyst reports that three samples of cream of tartar examined were found to be adulterated to the extent respectively of 40 parts of lead, 74 parts of lead, and 12 parts of arsenic per million.

MORPHINE VICTIM.—At London Sessions, on February 23, T. R. S. O'Hagan, brought up for sentence on a charge of forging and uttering a request for the supply of morphine sulphate (*C. & D.*, January 19, p. 36), was bound over in his own recognisances on the understanding that he would enter a home.

VENEREAL DISEASES.—The Local Government Board has sent to local authorities a circular urging them to take steps to provide accommodation for the treatment of lying-in women suffering from venereal disease. It is pointed out that special precautions are needed in these cases to prevent blindness in the children born of diseased mothers.

WINE-LICENCE REFUSED.—At the adjourned Licensing Sessions at Blackpool, on March 4, the application of Arthur Walker, drug-store proprietor, 165 Church Street, for a licence to sell medicated wines (*C. & D.*, February 9, p. 35) was refused. The Chairman remarked that had the Bench known that such licences were in fact full wine-licences fewer would have been granted in the past.

EFFECTS OF VERONAL.—During the re-hearing of the case of *Yorke v. Yorkshire Insurance Co., Ltd.*, in the King's Bench Division, London, on March 5, which turns upon an interpretation of the insurance proposal, remarkable evidence was given as to the effects of veronal. A barrister testified to the benefits he receives from the use of veronal, and stated that he has no difficulty in giving up the use of the drug whenever he desires.

EXPERIMENTS IN ELECTRO-CULTURE.—The President of the Board of Agriculture and Fisheries has appointed a Committee to advise in regard to all electrical questions connected with the carrying-out of experiments in electro-culture, and particularly with regard to the construction of apparatus suitable for use on an economic scale and to the making of such electrical measurements as may be necessary in connection with the experiments. The Committee is constituted as follows: Sir John Snell, M.Inst.C.E. (Chairman); Mr. A. B. Bruce, M.A.; Professor V. H. Blackman, F.R.S.; Dr. Chree, F.R.S.; Mr. W. R. Cooper, M.A., B.Sc., A.I.C.; Dr. W. H. Eccles, M.I.E.E.; Mr. J. S. Highfield, M.I.E.E.; Professor T. Mather, F.R.S., M.I.E.E.; Dr. E. J. Russell, F.R.S.; and Mr. C. T. R. Wilson, F.R.S. Mr. B. W. Phillips, of the Board of Agriculture and Fisheries, will act as Secretary to the Committee, and all communications should be addressed to him at 4 Whitehall Place, London, S.W. 1.

INSTITUTE OF CHEMISTRY.—At the fortieth annual general meeting of the Institute of Chemistry, held in Russell Square, London, W.C., on March 1, Sir James Dobbie, the retiring President, referred to the special services which the Institute had rendered in connection with the war. The attention of the Council had been devoted also to the revision of the regulations for admission to the membership of the Institute, with a view of promoting the more complete organisation of British professional chemists. He hoped that means would be found of constituting the Institute the representative body of all properly qualified professional chemists, and that it should also undertake to main-

tain a register for others who were engaged in chemistry, but were not necessarily qualified for admission to the Institute as members. Such an organisation as they had in view would make it possible, when occasion demanded, for the chemists of the country to bring their whole weight and influence to bear on questions of national interest. Sir Herbert Jackson, K.B.E., F.R.S., was elected President for the ensuing year.

STATUS OF CHAMBERS OF COMMERCE.—Our Parliamentary correspondent writes: As a further step towards increasing the usefulness, and, at the same time, of officially recognising the work of the various Chambers of Commerce throughout the country, Sir Arthur Steel-Maitland, the head of the new Commercial Intelligence Department, has intimated to those bodies that in the formation of his branch offices in some of the more important industrial and commercial centres of the United Kingdom it is essential that there should be the closest possible co-operation with the local Chambers of Commerce. It is suggested in the first instance that local branches of the new Department should be established at Birmingham, Bradford, Liverpool, Manchester, Sheffield, Dublin (or Belfast), and Glasgow, and it is felt that these would be of much service in making inquiries and obtaining information regarding the special industries of the locality. In course of time Sir Arthur Steel-Maitland proposes to take up the question separately with the several Chambers concerned, and it is suggested, in order to avoid any interference or overlapping with their functions, that the two bodies should be housed in the same building, or, at any rate, in as close proximity as possible. The scheme has already met with the ready approval of the Association of Chambers of Commerce, and the question is now being referred to the local Chambers for consideration.

POLICE COURT CASES.—At the Mansion House Police Court, London, on February 27, Frank Thos Slade (15), messenger in the employ of Barclay & Sons, Ltd., wholesale druggists, 95 Farringdon Street, was charged on remand (*C. & D.*, March 2, p. 35) with stealing two boxes of Peps and twelve bottles of Iclma cream, value 14s. 6d. There were further charges of stealing soap and other goods to the value of 19s. 6d., and a quantity of sundries to the amount of over 5l. Wm. Henry Pennefather (34), printer, was charged with receiving two boxes of soap, well knowing it to have been stolen; and Pasquale Cresci, coffee-shop keeper, 27 Fetter Lane, was charged with feloniously receiving a quantity of the stolen goods. From the evidence given it transpired that Slade bore a very bad character for pilfering. Cresci, at whose place a lot of the articles were found, said he bought some of them from the boy, but some of the goods "he had left there." Cresci supplied coffee to some of the men at Pennefather's shop, and one of them stated he got Pennefather to take the soap. The Lord Mayor ordered Pennefather to be discharged. Slade's father being away at the Front, his stepmother asked that he might have one more opportunity, and the Lord Mayor, warning him, bound him over, and put him under probation for six months. Cresci was sentenced to two months' imprisonment, with hard labour.

Irish News.

Pharmaceutical Society of Ireland.

The latest dates for making application for the following examinations are: Thursday, March 21, for the Preliminary examination; Tuesday, March 26, for the Registered Druggist examination; Wednesday, March 27, for the Pharmaceutical Licence examination; Tuesday, April 2, for the Pharmaceutical Assistant examination. Applications should be lodged with the Registrar by 11 A.M. on the dates mentioned.

Brevities.

Sir Stanley Harrington has been re-elected auditor of the G.S. & W. Railway Co.

The messenger-boys employed at Fielding's Pharmacy, 65 Patrick Street, Cork, went out on strike on March 5.

A young man while crossing the road at North Main Street, Cork, had some nitric acid thrown at him by two cyclists. He was taken into the North Main Street premises of Lee Chemists, Ltd., for first-aid treatment.

Mr. Geo. Morrow, representative of A. & F. Pears, Ltd., was the winner of a lace veil balloted for in Lurgan recently, the proceeds of which were given to Red Cross War Funds. Mr. Morrow returned the veil to Mr. A. W. Mann, Ph.C., who had charge of the scheme, for a further ballot; the proceeds to be given for the same object.

Scottish News.

Brevities.

At Stirling, on February 11, George Thomson (41), chemist, was fined 5l. for failing to notify his change of address and failing to produce his registration card on demand.

Twenty-one different kinds of plants are in flower in the rock-garden of Bellahouston Park, Glasgow, including *Daphne Mezereum*. This number is considered a record for the time of year.

Owing to the prevailing scarcity of matches chemists in the West are experiencing a large demand for saltpetre. Customers are resorting to home-made match-paper, and adopting the antiquated method of igniting this by means of flint and steel.

Dr. J. F. Tocher, Ph.C., county analyst for Aberdeenshire, states in his annual report for 1917 that of 250 samples of all kinds taken, thirty-four, or 13.6 per cent., proved to be adulterated or deficient. In 1915 the percentage was 6.3. The increase is chiefly in milk.

Chemists are now experiencing many delays in the receipt of goods, but are making the best of it. The chief feature of the past week was the advance to 6d. of most of the popular toilet-soaps; a further advance on the present 3½d. tablet is predicted. The increased demand for saccharin tablets has caused a temporary shortage, but chemists are disinclined to lay in large stocks in view of possible Government control.

A postcard was issued on February 28 by the Hon. Secretary of the local Association intimating the unwillingness of a number of Dundee chemists to adopt the new Sunday evening closing scheme until the beginning of June, and the Committee recommended that the usual practice be continued in the meantime (see *C. & D.*, February 16, p. 36). A majority of chemists in the centre of the city, however, began the closing, as first arranged, on March 3. Among the shops that close are those of Messrs. Davidson & Gray, Doig & Sons, Forsyth, Geake, Hardie & Son, and Kerr.

British Pharmaceutical Conference.

A MEETING of the Executive Committee was held at 16 Bloomsbury Square, London, W.C., on February 28, the President (Mr. C. A. Hill) in the chair. There were also present Mr. E. M. Holmes (Vice-President), Mr. D. Lloyd Howard (Honorary Treasurer), Messrs. F. W. Gamble, C. H. Hampshire, A. R. Melhuish, and H. Skinner, with Lieut. H. Finncmore and Mr. R. R. Bennett (Honorary Secretaries).

It was reported that the decease of the following members of the Conference had taken place since the last meeting of the Executive Committee: Mr. W. E. Row, Sydney; Mr. T. Dobinson, Bishop Auckland; Mr. W. Ralph Dodd, Cheshunt; Mr. W. Inman, Edinburgh; Lieut.-Colonel Clifford Probyn, London; Professor J. P. Remington, Philadelphia; Dr. W. Vincent Johnston, Dublin; Sir Edward Evans, Liverpool; Mr. Thomas Tyrer, Stratford.

The Secretaries were instructed to express the condolences of the Executive Committee with the relatives.

The Honorary Treasurer (Mr. D. Lloyd Howard) submitted the annual statement of accounts and balance-sheet for the year ended December 31, 1917. The balance in hand is 44l., against 84l. at the end of 1916. The increased expenditure was shown to be due to the greater cost of the "Year-book." It was arranged that the accounts should be printed and circulated. It was provisionally decided that the annual meeting of the Conference should be held in London on Wednesday, July 10.

DAUFRESNE'S method of stabilising Dakin's solution is to add potassium permanganate 0.005 gram to each litre.

MONTSERRAT LIME PRODUCTS AND PAPAIN.—From a table of principal exports it appears that the second place is taken by lime products. Of these 116,447 gallons of raw lime-juice, valued at 17,185l., and 3,188 gallons of concentrated lime-juice, valued at 739l., together with 235 cwt. of citrate of lime, valued at 352l., were exported in 1916. The export of papain is peculiar to Montserrat of all the smaller West Indian islands. In 1916 this reached the considerable total of 2,476 lb., with a value of 1,560l.

Legal Reports.

Sale of Potassium Cyanide.—At the North London Police Court on February 28, Mr. Robert John Price, chemist and druggist, Tollington Park, was summoned for selling potassium cyanide to a boy of fourteen without complying with the provisions of the Pharmacy Act. He pleaded guilty. The boy subsequently committed suicide (*C. & D.*, February 16, p. 36). Defendant said he knew the lad as an experienced experimental chemist, and had sold him poisons on other occasions, for which he had signed. The defendant was fined 5l.

Sale of Agricultural Poisons.—A large number of summonses at the suit of the Pharmaceutical Society of Ireland were heard at the Kilkenny Petty Sessions on February 26. The defendants were shopkeepers in the city of Kilkenny, and the charges, in almost all the cases, were grounded on the sale of Cooper's sheep-dip to an inspector of the Society under circumstances which, it was alleged, constituted breaches of the Sale of Poisons (Ireland) Act, 1870, and the Pharmacy Act (Ireland), 1875. Mr. Wm. C. Meeke, solicitor, prosecuted on behalf of the Pharmaceutical Society. The first summonses taken up were those against Alderman Philip Clohosey, of John Street, Kilkenny, and his wife, Mrs. Bridget Clohosey. Alderman Clohosey was charged on one summons with having kept open shop for retailing or dispensing poisons contrary to the Pharmacy Act (Ireland), 1875, and on a second summons with having sold to Patrick Butler, a person unknown to him, poison—Cooper's sheep-dip—the box, bottle, vessel, wrapper, or cover in which it was contained not being labelled with the name and address of the defendant as the seller, and with having failed to make the prescribed entry in the book required by the Sale of Poisons (Ireland) Act, 1870, of the circumstances of the sale, and to obtain the signature of the purchaser to the entry. The offence charged against Mrs. Clohosey was that she sold Cooper's sheep-dipping powder to Patrick Butler contrary to the Pharmacy Act, 1875. Mr. Meeke, having read the summonses, explained the law as to the persons who are entitled to sell poisons, and said that neither of the defendants had any qualification whatever to do so. The offences arose from the sale of Cooper's sheep-dip. Alderman Clohosey was the proprietor of the shop; Mrs. Clohosey was the actual seller. If these were the only facts the case would be a simple one, involving no complication of either law or fact. But unfortunately Mr. Drew, Secretary of the County Council, out of friendship for Alderman Clohosey, had taken it on himself to issue a licence to him without the service of any of the prescribed notices, and without the County Council having an opportunity of considering the matters prescribed by the Poisons and Pharmacy Act, 1908, and the regulations made under it. Having explained the provisions of the Act and the regulations bearing on the point, Mr. Meeke said the question arose whether the purported licence was good or bad. He contended that it was bad, as none of the conditions precedent to its issue had been complied with, and as the person who signed it had no authority. In the words of the section, the defendant, therefore, was not "duly licensed." If, on the other hand, the Bench held the licence to be good—and for the purposes of this branch of the argument he was prepared to admit it—then he submitted that on five separate grounds the protection afforded by the licence ceased. First, the packet did not bear the name and address of the seller; second, the poison-book was not signed; third, the purchaser was unknown to the seller; fourth, the sale was made not by the licensee, but by his wife; and fifth, the sale was made in a grocery or provision-shop. He submitted that the Bench were bound to convict. Mr. Patrick Butler, inspector for the Pharmaceutical Society of Ireland, gave evidence of the purchase of a packet of Cooper's sheep-dip in Alderman Clohosey's shop for 1s. 2d. He called at the County Council offices and saw Mr. Drew, the Secretary, who said to him, "Oh! have you been at Clohosey's? At what time on October 15 were you at Mr. Clohosey's? He ran up here in a great hurry, and I gave him a provisional licence without informing the police. He is a great friend of mine, and I would not like to see him getting into trouble." Mr. Walter Thorp, F.I.C., stated that he analysed the packet of Cooper's sheep-dip, which contained arsenic equal to 23.2 per cent. of arsenious acid. Mr. Thomas Drew, Secretary of the Kilkenny County Council, stated, in reply to Mr. Meeke, that he was custodian of the register under the Poisons and Pharmacy Act, and since this case he had issued licences from time to time under the direction of the County Council. Alderman Clohosey told him that he had had a visit from the inspector of the Pharmaceutical Society, and that

he was not licensed, but that he had applied personally on a previous occasion, and that his application had not got attention. Witness thereupon issued a licence. Mr. Shortal, for defendants, submitted that these prosecutions had been brought for the purpose of harassing traders and giving the monopoly of the sale of Cooper's sheep-dip to chemists, who would charge the farmers fancy prices for it. Mr. Meeke stated that these prosecutions were brought in the public interest by the body constituted by Parliament for the purpose. The Bench fined Alderman Clohosey 5l. on the summons for keeping open shop, and 2s. 6d. on the second summons against him; and they fined Mrs. Clohosey 5l. for selling. The Bench allowed Mr. Meeke costs of court, but refused professional costs.—Similar summonses were heard against Mr. John Lowry, of Rose Inn Street, Kilkenny. Mr. Healy, who defended, said Mr. Lowry was duly licensed, and considered that he was entitled to do what he had done. It was not stated on the licence that it was necessary to keep a book or make any entry whatever in connection with the sale of sheep-dip. He suggested the withdrawal of the summonses for keeping open shop and selling. Mr. Meeke pointed out that if the licensee did not comply with the regulations his licence ceased to protect him. He consented to withdraw the summons for keeping open shop. The Bench imposed a fine of 5l. on the summons for selling, and a fine of 2s. 6d. on the summons for not making the prescribed entries, etc., and gave costs of court.—Four summonses were issued against Mrs. Kate Sherin, High Street, Kilkenny—two for keeping open shop, two for failing to make the prescribed entries. Her assistants, Mr. Thomas Prendergast and Mr. Patrick Dowling, were summoned for selling Cooper's sheep-dip. Mr. Sullivan, R.M., said a very strong recommendation for a reduction of the penalties should be made in these cases, as the Magistrates considered it was a little oppressive to make the second visit to the shop, as in this case. The Bench fined Mrs. Sherin 5l. on each of the summonses for keeping open shop, and 2s. 6d. on each of the other two summonses. Each of the assistants was also fined 5l. Costs of court were allowed.—Alderman M. L. Potter, High Street, Kilkenny, was also fined 5l. and 2s. 6d. respectively on charges of keeping open shop and failing to make the prescribed entries, and his assistant, Mr. Patrick O'Neill, was fined 5l. for selling. Costs of court were allowed.—Similar summonses were heard against Mr. E. J. Delahunty, High Street, and his assistant, Mr. John O'Leary, who sold a packet of sheep-dip. The case against Mr. Delahunty was adjourned, and the assistant was fined 5l.—Mr. R. H. Smithwick, J.P., was also fined 5l. for keeping open shop, 5l. for selling, and 2s. 6d. for failing to make the prescribed entries. A fourth summons charging him with keeping open shop for "dispensing or compounding medical prescriptions" was withdrawn.

New Companies and Company News.

P.C. means Private Company and R.O. Registered Office.

ARGONITE, LTD. (P.C.).—Capital 50,000l. Objects: To acquire a secret process of manufacturing a fuel-saver known as "Argonite," and to adopt an agreement with E. E. Barton. Solicitors: Vallance & Co., 28 Bishopsgate, London, E.C.

NATIONAL OPTICAL CO., LTD. (P.C.).—Capital 100l. Objects: To carry on the business as manufacturers of and dealers in scientific instruments, optical, surgical, chemical, and scientific apparatus, etc. Solicitor: A. A. Ironside, 6 Market Street, Leicester.

MENTHOLATUM CO.—Registered in Wichita, Kansas, U.S.A. Manufacturers of and dealers in proprietary articles, chemicals, etc. Capital stock \$100,000 in 100 shares. British address: 329 High Holborn, W.C., where Miss F. J. Billing is authorised to accept service.

UNITED ALKALI CO., LTD., announce a dividend of 2s. per share, less tax, on the ordinary shares.

BORAX CONSOLIDATED, LTD.—The directors recommend a dividend of 2s. per share on the deferred ordinary shares, less income-tax, making 15 per cent. for the year.

JOINT-STOCK COMPANIES.—Notice is given in the "London Gazette" that the names of the undermentioned companies have been struck off the register and the companies dissolved: Bitumens, Ltd.; Hydrocarbon Research Co., Ltd.; Karina Face-powder Syndicate, Ltd.; Mies' Electrical and Chemical Culture, Ltd.; Shaw's Drug Co., Ltd.; Usa Photo Papers, Ltd.; Vaporisateur Hygienique Radium, Ltd.; and Yorkshire and Cambrian Medicine Co., Ltd.

The Proposed Compulsory Curriculum.

IN response to the invitation of the President of the Pharmaceutical Society, published in the official journal, that those engaged in the teaching of pharmacy in Great Britain would favour him with their views on the proposed compulsory curriculum of study, the matter was considered at a meeting of London teachers in pharmacy which was convened by Miss Margaret E. Buchanan and held at the Progressive Pharmacy Club on February 21. The meeting was attended by Misses Buchanan, Heywood, and Maughan, Messrs. Wootton, Elt, Wills, Woodnoth, and Humphrey. Mr. H. Lucas was unable to be present, but sent a letter which showed that his views were in full accord with those of the meeting as disclosed in the discussion which took place. There was general agreement that students could cover the ground required in six months provided there was some preliminary instruction during apprenticeship, but that students without such preliminary training might find it necessary to undergo a complete nine months' course of instruction. Other points on which there was general agreement are embodied in the following statement, which has been submitted to the President of the Pharmaceutical Society, after copies had been submitted to and approved by all of those who attended the meeting, as well as by Mr. Lucas:

1. There is no question as to the practicability generally of adopting the recommendations printed at the head of page 5 of the Minor Syllabus. [The recommendations referred to are as follows: The Council of the Pharmaceutical Society recommends that all candidates before presenting themselves for examination should receive a systematic course of instruction occupying a period of not less than six months; and that such period of study should include at least sixty lectures in chemistry, eighteen hours' work in each week in practical chemistry, forty-five lectures and demonstrations in botany, and twenty-five lectures and demonstrations in materia medica.]

2. The minimum systematic course of instruction should not occupy less than twenty weeks, and it should be preceded by a period of three years' apprenticeship or general training in pharmacy.

3. Pupils should be recommended to attend if possible during the period of apprenticeship elementary courses of instruction in physics, chemistry, and botany, so as to enable them to understand and appreciate more fully the further instruction they will receive during the systematic course.

4. The student's entire time should be devoted to study during the period of the systematic course of instruction, and all classes, etc., should be attended during the day.

5. There should be at least 100 lectures in chemistry and physics, twelve hours' work in each week in practical chemistry, forty-five lectures and demonstrations in materia medica and pharmacy, together with instruction in dispensing and demonstrations of practical pharmaceutical processes.

6. The Qualifying examination should be held twice a year only, preferably late in January and July, the actual times being so arranged as to follow directly upon the completion of the systematic course of instruction, and the dates of commencement of the examinations should be published in advance in the Calendar of the Pharmaceutical Society.

7. The examination syllabus should be subjected to such revision as may be required to bring it more into accord with present-day needs, and teachers in pharmacy should be afforded an opportunity of submitting modifications and additions which their experience suggests as desirable.

8. All schools and colleges of pharmacy should be open to inspection by duly authorised persons at any convenient time during the systematic course of instruction.

It was subsequently decided, after further discussion, to take such steps as may be necessary to protect the interests of teachers, including the formation of an Association of Teachers in Pharmacy, the objects of which should be to watch over the interests of proprietary schools and to improve the teaching and training of pharmaceutical students. Mr. John Humphrey, 65 Park Road, Battersea Park, S.W. 11, was asked to act as Hon. Secretary *pro tem.*, and he will be glad if teachers in pharmacy throughout Great Britain will (1) notify their views on the statement submitted to the President of the Pharmaceutical Society, and (2) state whether they approve of the idea of forming an Association of Teachers in Pharmacy.

Face-values Committee.

A MEETING of this Committee was held at the Holborn Restaurant, London, on February 28. Mr. G. Hampton (Birmingham) was in the chair, and among those present were:

Messrs. W. Hind (Leicester), W. H. Saunders (Liverpool), H. Miller (Cheltenham), Hugo Wolff (Tottenham), E. Jones (Brighton), W. Peake (Twickenham), J. Kirkpatrick (West Ham), C. Philip (Herne Bay), W. H. Dannett (Orpington), H. T. Eeritt (Streatham), E. N. Lloyd (West Ham), F. E. Bustard (Tottenham), J. Humphrey, C. Goode, C. Rundle (Walthamstow), J. Milner (Greenwich), W. S. Brawn (Bedford), E. W. Gough (Willesden), G. W. Harrison (Reading), M. C. Rock (Maidenhead), C. W. Matthews, A. Grassick (Hornsey), F. Bonnett, J. Hearle (Islington), H. Ralton, G. W. Evans (Hammersmith), F. Postlethwaite (Hoddesdon), O. F. Moss, R. Wilkie (Islington), J. H. Frost (Hornsey), A. R. Melhuish, W. Want, D. Anderson (Crouch End), C. W. Andrew (East Finchley), J. C. Carter (Holloway), J. E. Evans (Stratford), E. T. Neathercoat (Weybridge), J. H. Matthews (Leytonstone), A. Higgs (Kingston-on-Thames), and T. Needham.

The Chairman acknowledged the part taken by THE CHEMIST AND DRUGGIST in the movement, and called upon Mr. W. H. Saunders to address the meeting on the advantages of face-value.

Mr. Saunders' main points were:

- (1) Everyone should subscribe to and work with the Proprietary Articles Trade Association, which has the requisite machinery.

- (2) Multiple stores are now fellow-craftsmen with us; they realise that business cannot be kept up by price alone, and now is the time to secure their co-operation and bring them into line with us.

- (3) Co-operative stores will be a difficulty, but in their case Mr. Saunders suggested that goods should be sold at face-value and no dividend allowed.

- (4) The greatest difficulty will be an attempt to draw a red herring across the path of face-value to divert from it the attention of the whole of the craft.

Mr. H. Miller pointed out that the difference between face-value and cut prices meant a loss to retailers of not less than 1,000,000% per annum, and that in the main they themselves were to blame.

Mr. Hugo Wolff said that variation of prices alienates from chemists public good will and causes them to be labelled "Profiteers." He pointed out that the manufacturers who have advertised their goods at face-value have not suffered on that account. The instances given were Iron Jelloids, Glaxo, Scott's Emulsion, Peps, and Zam-buk—all lines which sell well. The biggest difficulty will be the P.A.T.A., who as recently as December 31 wrote to a member saying "that the Council of the P.A.T.A. has come to the conclusion that it would not be serving the best interests of the trade if they insisted on face-value on an article coming on the P.A.T.A. list."

The following resolution was then moved by Mr. Hugo Wolff, seconded by Mr. Peake, and carried unanimously.

That this meeting of London and Home Counties pharmacists heartily supports the action of the Face-values Committee in endeavouring to obtain the protection of patent medicines and proprietary articles at face-value accompanied by a sufficient and adequate profit.

It also expresses its approval of the policy of the Committee in endeavouring to obtain the support of the multiple stores and its desire to work in harmony with, and strengthen the position of, the P.A.T.A.

It was moved by Mr. Peake, seconded by Mr. Bright, and carried unanimously, that all Pharmaceutical Associations be asked to subscribe at the rate of 1s. per member towards the expenses of the movement, and that any balance left over should be given to the Benevolent Fund of the Pharmaceutical Society. The whole question of face-value and fair profit was then discussed.

Mr. T. Needham, who is the proprietor of a number of chain stores, expressed his approval of the action of the Committee, and said he would give his support morally and financially. The following were elected additional members of the Committee: Mr. T. Needham, Mr. Kirkpatrick, and Mr. Higgs.

The meeting decided to leave the composition of the deputations to Boots, Ltd., and the Proprietary Articles Trade Association to the Committee.

SHELLAC IN SWEDEN.—A census of stocks of more than 25 kilos. has been ordered, and an embargo imposed, with a view to distributing stocks among industries mostly in need of shellac.

SACCHARIN IN ITALY.—Arrangements have been made for an increase in the output of the special factories built for the production of saccharin, so that they will turn out 10,000 quintals per month.

BOTTLES covered with heavy duck fabric impregnated with brown floor-stain are best for storing Dakin's solution when amber-coloured bottles are not obtainable.

Pharmaceutical Society of Great Britain.

Council-meeting.

THE MONTHLY MEETING of the Council was held at 16 Bloomsbury Square, London, W.C., on March 6, the President (Mr. E. White) in the chair. Mr. A. Hagon was the only Councillor absent, and had sent a letter of explanation.

After the minutes of the previous meeting had been read and confirmed, a greeting for the year 1918 was presented from the Pharmaceutical Council of Western Australia.

DEATHS.

Before the ordinary business was proceeded with, the PRESIDENT referred to the deaths of Lieutenant-Colonel Clifford Probyn and Mr. Thomas Tyrer. Colonel Probyn, he said, was an old member of the Society, who shed lustre on his calling by virtue of his great public duties; Mr. Tyrer, though not a pharmacist, was well known in pharmacy through his connection with the British Pharmaceutical Conference, and had long given his time freely to the service of his fellow-citizens.

ELECTIONS AND RESTORATIONS.

Twenty-one members and twenty-three student-associates were elected. Two persons were restored to the Register and fifteen to the Society. Forty apprentices or students were reported registered since the last meeting.

NEW AUDITOR.

Mr. E. J. Millard, Ph.C. (a director of C. J. Hewlett & Son, Ltd.), was elected an auditor to fill the vacancy caused by the death of Mr. William Ralph Dodd.

EXAMINATION BY-LAWS.

The amendments to Section VII. of the Society's By-laws (C. & D., February 9, p. 39) were read a second time.

CORRESPONDENCE.

The East Anglia Federation of Pharmaceutical Associations forwarded a resolution deprecating any attempt to deprive registered pharmaceutical chemists and chemists and druggists of their legal title of "chemist," and calling upon the Society to take immediate steps to secure this title for persons so described who are on the Register of the Pharmaceutical Society. The PRESIDENT remarked that the title is already secured.

The Thames Valley Association wrote suggesting that the reconstruction of the Local Associations Executive should be on the lines of the Pharmaceutical Committees, and that the Society should admit any pharmacy students to the school and the examinations "who have served their country in the Army or Navy at greatly reduced prices." Both of these matters, it was officially stated, are under consideration.

The Western Pharmacists' Association communicated a resolution recommending the Council to make efforts to secure the removal of the duty on saccharin. The recommendation found no support at the Council-table: it was pointed out that the saccharin-duty is an international one, and that before its removal, or even modification, could be effected the Foreign Office would have to be approached.

Communications were read from a Committee of the Royal Society and from the Chemical Society stating that a bibliography of works in English on chemical subjects is in contemplation, and asking that a representative be elected from the Council to a Committee for this undertaking. It was found that the President already represents the Council.

FINANCE COMMITTEE.

The financial report, read by the Secretary, is summarised as follows:

The receipts of the General Fund since the last Committee-meeting amounted to 3,321*l.* 1*s.* 3*d.*, made up as follows: Penalties and costs, 125*l.* 14*s.* 1*d.*; "Journal" and publications, 61*l.* 10*s.* 4*d.*; registration-fees, 90*l.* 6*s.*; restoration-fees, 3*l.* 3*s.*; subscriptions, 2,959*l.* 8*s.* 6*d.*; rent and insurance, 49*l.* 16*s.*; dividend, 31*l.* 3*s.* 4*d.*, making, together with balance in hand, a total of 3,903*l.* 16*s.* 8*d.* The amount recommended for payment was 1,959*l.* 8*s.* 4*d.* The other balances were: Benevolent Fund (current account) 1,775*l.* 7*s.* 5*d.*, (donation account) 468*l.* 13*s.* 7*d.*; Orphan Fund, 133*l.* 18*s.* 3*d.*

The TREASURER, in moving the adoption of the report, mentioned that the subscriptions showed an increase of 130*l.* over those of the corresponding date last year, and that the bulk of the Benevolent Fund donation account balance had been invested in War Bonds in the nearest "Tank."

BENEVOLENT FUND COMMITTEE.

Grants in seven cases were recommended, totalling 129*l.*, as also a grant of 35*l.* from the Orphan Fund. The death of

an annuitant was reported. The following special contributions were announced: Ucal, Birmingham Section, 10*l.* 10*s.* 3*d.*; Mr. N. R. Hilton, Bognor (weighing-machine), 4*l.*; Hampshire Pharmacists' Association, 3*l.* 3*s.*; Wolverhampton Chemists' Association, 3*l.* 3*s.*; Chester Pharmacists' Association (box), 3*l.*; East Anglia Federation (annual meeting), 2*l.* 3*s.* 4*d.*; Southend Pharmacists' Association (box), 12*s.* 8*d.*

Mr. BILSON, in moving the adoption of the report, commented on the smallness of the number of collecting-boxes returned from chemists (about thirty out of sixty, yielding in twelve months 46*l.* 14*s.* 9*d.*), and expressed a wish that the collectors were more businesslike. He slyly suggested that here was a subject for Miss Buchanan. Her reply will no doubt be forthcoming "in another place," or even, perhaps—?

LIBRARY COMMITTEE.

The bulk of this Committee's report was filled with domestic affairs concerning the Society's library, school, and buildings. Under this heading came an estimate for earthenware piping to replace lead for conveying waste from the school laboratories, the cost not to exceed 20*l.* The most important item was one that did not appear in the Agenda, and was introduced in a statement that research work on alternatives for lard and olive oil had been going on in the Society's laboratories, and that the results would be embodied in formulas for publication. Commenting on this statement in his presentation of the report, the PRESIDENT recalled the action of the General Medical Council in July 1917 in the matter of glycerin and sugar, and said that prior to the appearance of the "London Gazette" notice the B.P.C. Codex Committee had also tackled the lard question. The present position was that action might be expected from either the General Medical Council or the Food Controller, following which action the formulas now in readiness could be published. Mr. SARGEANT suggested that publication might precede any official order or regulation, and Mr. SKINNER added that pharmacists are perforce already finding substitutes for lard and olive oil; but the PRESIDENT replied that until the Council knew what order would be issued it could hardly rush in with a list of substitutes.

The Committee reported the receipt of letters from teachers of pharmaceutical subjects on the curriculum question, and decided to have an epitome prepared for consideration at its next meeting.

The following remit from the Council was considered:

"That it be an instruction to the House and School Committee to examine the position of *bona-fide* assistants, apprentices, and students whose careers as possible pharmacists have been suspended by the exigencies of war, for the purpose of seeing what can be done to facilitate their re-absorption into pharmaceutical life without any loss to them arising from their patriotic response to our country's call. Also to examine as far as possible the position of those who have had to close their businesses to serve their country in order to render all possible assistance, financial or otherwise, to rehabilitate themselves in civil life approximating to their former status."

The first part of the remit was turned over to the General Purposes Committee; with regard to the second, it was decided to ask for a return of businesses closed, through war exigencies, from Pharmacists' Associations throughout the country.

A letter was received from the Incorporated Association of Head Masters suggesting that a uniform examination for admittance to any scientific body is eminently desirable. It was resolved to forward a reply stating that the Society has already taken up this attitude.

MR. WOOLCOCK RESIGNS.

The attention of the Council was focussed, during the comments of the President on the report of the General Purposes Committee, on that portion of it dealing with the approaching vacancy in the secretariat and registrarship, and, by consequence, the alteration in the plans for Parliamentary representation of the Society's interests. This part of the report was not read, and it was announced that the actual decision was postponed to the next Council-meeting. The President, however, took the opportunity of announcing what everyone present knew, and expressing what everyone felt. In a eulogistic and neatly phrased speech he said that the Council's regret at the impending loss of Mr. Woolcock as Secretary and Registrar is mingled with rejoicing, for his sake, on account of the greater scope that his new office would afford. The work that Mr. Woolcock was about to undertake as Secretary of the Association of British Chemical Manufacturers is of enormous importance to the chemical industry of this country. Members of the Pharmaceutical Society will feel absolute confidence in him, and are glad to have had the opportunity of contributing to some extent to his training. His five years at the Square have been the most strenuous in the

history of the Society, and he (the President) desired to express the good wishes of the Council. (Hear, hear.)

OTHER MATTERS.

The same Committee reported a joint communication from the Ministries of Reconstruction, of Labour, and of Pensions, dealing with employment for (a) demobilised men, (b) apprentices or students, (c) disabled men, and (d) war widows. The matter was referred to the School Committee.

The remit from the last Council-meeting on the subject of appointing a representative on the National Traders' Organisations Committee was settled in favour of such an appointment.

The Committee also considered the Local Associations Executive Committee's report, which dealt, among other matters, with the Vice-President's visit to a checking bureau, with a demand from Surrey for increased N.H.I. remuneration, with a threatened breakdown of the service in the West, and with a memorandum from Mr. Deakin on accurate price-values for appliances.

The drafting of the Council's annual report was referred to the Library Committee.

Mr. Peter Boa, Professor Smith, and Dr. J. F. Tocher were appointed examiners to conduct the Council Prizes examination.

This concluded the public business.

Marriage.

THOMAS—SAUNDERS.—At Pontypridd, recently, William Howard Thomas, chemist and druggist, to Catherine Saunders, both of Treforest.

Deaths.

COOLEY.—At Wolverhampton, on February 26, suddenly, Mr. Walter Bromley Cooley, chemist and druggist.

HARRIS.—At Streatham Hill, London, S.W., on January 15, Mr. Henry William Harris, Ph.C., aged seventy-four. Mr. Harris was registered as a pharmaceutical chemist in 1865, and after experience with John Bell & Co., Oxford Street, W., opened in business at Rochester in 1867, and subsequently took a pharmacy at Exeter. After relinquishing his connection there he took up a position in 1905 with John Bell & Croyden, Ltd., Wigmore Street, W., and, working on original lines as their representative, became a *persona grata* with the medical profession.

LAKE.—At Barker Street, Aston, on February 24, Mr. Ernest Jonathan Lake, aged sixty-two. Mr. Lake was at one time a representative of Bourne & Taylor, druggists' sundriesmen, London, and subsequently went into business on his own account. He had of late suffered from Bright's disease. Death occurred unexpectedly, and an inquest was held, resulting in a verdict of "Death from natural causes."

PERKINS.—At 3 Streatlbourne Road, Balham, London, S.W., on February 23, Mr. Thomas Frampton Perkins, Ph.C. (Perkins & Co., 99 Piccadilly, W.), aged fifty-six. Mr. Perkins served his apprenticeship with Mr. White, Ph.C., Clifton, and gained further experience at Nice and with Kingsford & Co., 54 Piccadilly. He won the Herbarium silver medal at the Bloomsbury Square School in 1879, and passed both the Minor and the Major examinations in 1881. The well-known business at 99 Piccadilly was opened by him in 1890.

SWAN.—At Overhill, Warlingham, on March 2, Hannah, widow of Sir Joseph Swan, F.R.S., aged eighty-one.

WHITE.—At 12 Dunster Avenue, Rochdale, on February 21, Mr. William Henry White, chemist and druggist, aged forty-eight.

Died on Service.

Goss.—Observer Leonard Sidney Goss, R.F.C., is officially reported killed on September 19, 1917. Observer Goss, who had been on active service in France for over three years, was the only son of the late Mr. Sidney Francis Goss, chemist and druggist, who established pharmacies in the West-end of London.

DAVID SASSOON & CO., LTD., merchants, have removed from 12 Leadenhall Street to 9 King William Street, London, E.C. 4.

MR. JAMES GRIFFITH ISAAC, chemist and druggist, Neath, South Wales, whose health has been impaired for some years, has sold his business to Mr. Frank Melville Thomas, chemist and druggist, Pen-y-cwm.

Trade Notes.

ZEPTO PRICES.—The new wholesale price for Zepto tartar-remover is 5s. 3d. per doz. The old price was given in the advertisement in last issue of Thomas Christy & Co.

JOHN BOND'S "CRYSTAL PALACE" MARKING-INK.—The proprietors of this marking-ink have made the following alterations in price: The 6d. size (minimum selling price 5d.), 3s. 6d. per dozen; 1s. size (minimum selling price, 9d.), 6s. 6d. per dozen.

AYRTON, SAUNDERS & CO., LTD., Liverpool, had hoped to send us, in time for this issue, the result of the quotation competition which was started in the jubilee issue of "Ayrton's Supplement." The company, however, has been unable to arrive at a decision in time.

FROZEN FOAM.—The prices of frozen foam, the toilet speciality of The British Drug Houses, Ltd., 22/30 Graham Street, City Road, London, N., have been advanced. The small size now sells at 9d., and the large size at 1s., the wholesale prices being 6s. and 8s. 6d. per dozen.

POSTAL TUITION.—The interesting announcement is made in our advertising columns that the Chester and North Wales College of Pharmacy, Hoole, Chester, has prepared a new postal system of tuition for the pharmaceutical examinations. The Secretary of the College will send particulars to inquirers.

LONDON "TANK" WEEK.—Stafford Allen & Sons, Ltd., London and Long Melford, devote their advertising space to an appeal to London to get "over the top" of a hundred millions this week. The names in the border of the advertisement of some of the subjects of German atrocities will act as a spur to all who do not desire the world to sink to the level of German barbarism.

THE SWISS BANK CORPORATION, 43 Lothbury, London, E.C. 2, have issued in booklet form a financial and commercial review of 1917, which gives in an interesting manner the salient facts of our commerce during war-time. Economic and currency questions, such as the necessity of Government control, scarcity of supply, fixing of minimum prices, increase in the volume of currency, etc., are each reviewed in turn. In the commercial section of the review useful statistics of prices, crops, and trade particulars of many of the leading commodities are given, these including wheat, sugar, cocoa, coffee, cotton, jute, flax, hemp, wool, metals, and minerals, petroleum, rubber, etc.

Information Department.

INFORMATION WANTED.

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated.

17/62. Sodium bicarb.: "New-castle" brand.	21/55. "Cornlax."
20/16. "Rasmuk" depilatory.	23/12. "Red Dragon" cough-mixture.
20/12. Honey and flowers jelly: makers.	23/2. Tunisian shampoo-powders.
21/50. Plant's cigarettes.	

INFORMATION SUPPLIED.

Inquiries regarding the following articles have been answered. The information as to supply will be given to others who send a stamped, addressed envelope to the Information Department, THE CHEMIST AND DRUGGIST, 42 Cannon Street, London, E.C. 4:

Andrew's liver salt, 5/67	"Paillette" brand boric acid, 6/2
Antiseptic shaving-blocks, 18/29	"Parazit," 259/43
"Brunolum," 172/73	Pepper's sarsaparilla, 1/42
Brunswick black, 237/31	"Perfuctum" tooth-paste, 228/10
Bunter's nervine, 1/42	"Peria," 181/38
Casold flour, 6/26	"Rosa Centifolia" perfume, 7/19
Cavendish's (Helen) radium hair-tonic, 256/6	Rowland's macassar oil, 1/42
Celluloid toilet-boxes, eye-shades, etc., 7/50	Rubber corks, 2/24
Chappman's Food, 178/69	"Rubie" safety-razors, 6/47
Chemical charts of atomic weights, etc., 178/25	Sanford's vermin-killer, 18/64
Corner's pure Devonshire oils, 7/36	San-kresyl, 7/34
"Cureol" ointment, 243/32	"Sanmetto," 16/45
"Cuticura" ointment, 1/42	Santal perles, 9/70
Decorating machinery, 11/68	Santonin, 16/45
Diabetic preparations, 258/60	Scott's (Dr.) electric hair-brush, 259/56
Holland's arch-support, 236/65	Septovinec, 8/8
Homeopathic pilules, unadorned, 233/15	Tablet-making machinery, 258/22
Horniman's tea, 247/48	Tablet-manufacturers, 245/20
"Insectox," 191/9	Taenigen, 7/37
"Izal," 16/45	Telmo, 9/61

Observations and Reflections

By Xrayser II.

Mr. J. Rutherford Hill

made a good fighting defence of our right to the title "Chemist" before the Society of Chemical Industry at Edinburgh, but his story of the genesis of the Pharmacy Act of 1868 was incomplete, and might possibly create a false impression. His reading of the Act itself seems to me questionable, in spite of the case he cites in its support. Briefly, the Act originated not with Parliament, but with the chemists themselves. The Pharmaceutical Society had long been dissatisfied with the Act of 1852 and had contemplated the framing of another. In 1863 an opportunity occurred. A Bill for preventing accidental poisoning had been introduced into Parliament, but had been summarily rejected. The Medical Council then made an abortive attempt to secure the control of pharmacy. This alarmed not the Society alone, but the whole trade. Two Bills were prepared—one by the Pharmaceutical Society, the other by the United Society; for there were now

Two Richmonds in the Field.

Neither Bill was acceptable to Government; but after long wrangling a compromise between the two was effected, and the resulting Bill, modified in its passage through Parliament, became the Act of 1868. It more nearly resembled the draft scheme of the United Society than that of the pharmacutists, for this Society, with less idealism but more astuteness than its rival, had seen that only by working the poison scare was there any chance of getting an Act at all. The protection of the pharmacist, which had been the main object of the older Society, was given a back seat. We did not, even so, secure, as Mr. Hill seems to think, a monopoly of the whole retail trade in poisons; we have not achieved that yet; but we sold our birthright for a Poisons Schedule.

As for the Act,

compromise is written all over it. It appears in the Preamble, where the two ideas of the status of the chemist and druggist and the regulation of the trade in poisons are found jostling one another for precedence, the latter winning. In Clause I. the fusion of the two Bills is more nearly attained than in the Preamble; here the chemist and druggist seems indeed in danger of forfeiting his qualification if he does not conform to the poisons regulations; but in Clause XV. the two streams, like those of the Arve and the Rhone, run clear again, for here, where alone penalties are imposed, the illegal assumption of titles and the wrongful dealing in poisons are made separate offences, as indeed they are in the marginal condensation of Clause I. Finally, the compromise declares itself when the full and the short titles of the Act are compared. Why do I recall this

Chapter of Ancient History?

Because the time is ripening for further legislation, and we must not repeat the old mistake. Reconstruction is in the air, the need of reform is urgent, and it can only be got through Parliament. But when we go to Parliament again we must go, not as retailers of poisons, but as dispensers of medicine. We must not abandon our present position, but we must advance beyond it; put it in the background, not in the forefront as we did before. I am not inclined to give up our title or any part of it, but I confess that if only by doing so could we establish pharmacy on a solid, satisfactory, permanent basis, I would give up any number of titles. I would rather be a pharmacist dispensing medicines than a chemist peddling poisons. I hope it will be understood that my reading of the Act of 1868 is not that of a lawyer, but of a plain-dealing man.

Accident Insurance

such as your correspondent "F." desires might no doubt be effected at Lloyds', if nowhere else. I have not had an opportunity of asking any of my

friends there about it this week-end, but from what I have been told as to the sort of insurances—some of which are of a distinctly freakish sort—which are undertaken, I should say there is nothing that can happen to us from the cradle to the grave—and I might almost say nothing in the whole mundane scheme of things—that may not be insured against there, at a price. Your correspondent should apply to some underwriter or broker of the Corporation at the Royal Exchange.

Returns (Empties)

are a fruitful source of friction between wholesalers and retailers, and, as an old "commercial," I may add, contribute largely to the sorrows of the road. The traveller, a man of varied rations and (in George Herbert's phrase) "afflictions sorted, sorrows of all sizes," bears this particular burden as part of his accustomed load, but inevitably it reacts on his efforts on behalf of his house. The blame for these troubles is often largely the retailer's. He is careless in making out his list of returns, he confuses the different items and their values, he includes things not properly returnable, and does his packing badly. He is apt to leave this job to the irresponsible errand-boy or gay apprentice, and he does not check their errors. But there are faults on the other side too, and these are more easily remedied. If every wholesale house supplied its customers with printed "returns" forms, in which containers are properly described, classified, and priced; if every container bore, in addition to the name of the firm supplying it, the price charged for it; and if the carter's signature to these forms, when he had checked the returns handed to him, were admitted by the firm as a receipt for the sum of their value, the area of possible dispute would be diminished virtually to nothing—in all cases, that is, in which there is no intermediate carrier. Even when empties are returned by rail there would be little possibility of difference if ordinary care were taken, whereas it is, as things are, very often extremely difficult for the retailer to be quite sure he prices his empties correctly, and when he is sure he may not always receive the credit to which he is entitled.

One Beneficial Result of the War,

upon which I have spoken before, is the stimulus which has been given by the shortage of many of the necessities of life to the discovery of new sources of supply, or in some cases the utilisation of old but hitherto neglected discoveries. The most striking instance of the latter is, perhaps, the extraction of nitrogen from the air. The possibility of this was demonstrated long since by Sir William Crookes and others, but it is the shortage of nitrates, occasioned by the war, that has led to the practical application of the discovery on a large scale. Nitrates are the most important plant-foods, and are therefore among the most important sources of human food. The superior yield of wheat per acre in Germany as compared with that of England, and at Rothamsted in comparison with our average, is due almost entirely to the larger use of nitrate fertilisers. It is satisfactory to know that we are now awakening to this fact, and are in consequence setting up works for the extraction of atmospheric nitrogen. This has been done, too, on a large scale and by various methods in Norway and Sweden. It is certain that our grain-crop might be doubled without increase of the cultivated area if thoroughly scientific farming were the rule, and the chief difficulty in the way is the conservatism of the farmer. Many years ago I was instrumental in getting up a series of lectures by experts on agricultural chemistry in my own neighbourhood. One of our farmers, when asked to attend them, said to me: "Nay, I've been farming these forty year, and if I can't manage that bit o' land without axing you to help me, I'll gi' o'er."

SATOLITE, named after Professor Sata, of Japan, is a galalith, made of the glucine of soya-bean coagulated by formalin. It is said to be produced much more cheaply than ordinary celluloid, and to have several advantages for industrial use not possessed by the latter. A company with a capital of 200,000*l.* has been floated in Tokio to manufacture satolite.

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LUSITANIA

Index Folio 190

NOTICE TO THE TRADE

ADVANCE IN PRICE OF "PYLITNA" POWDERS.

We hereby give notice that the Retail price of
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Editorial Articles.

Controlled Commodities.

IN indicating, in our issue of February 9 (p. 42), lines on which, as a war measure, lard might be eliminated from general use in ointments, we had in view the imminence of official action similar to that taken last July in the cases of glycerin and sugar, when the General Medical Council withdrew most of the glycerinated and saccharine preparations from the British Pharmacopœia. We have this week been informed by the Ministry of Food that the General Medical Council has now decided to withdraw from the British Pharmacopœia the ointments containing lard or benzoated lard, and, in addition, linimentum camphoræ. Lard, we are told, is no longer issued for the preparation of ointments in bulk, its alimentary use being paramount. The July announcement in the "London Gazette" constitutes a precedent, it appears, in another respect, in that now, as then, the General Medical Council does not intend to suggest any alternative preparation. Doctors will thus be free to differ as to the relative merits of any bases proposed, and there will be an opportunity for the compilers of the next Addendum to the British Pharmaceutical Codex to outdo—if they can—the fatuity of some of the formulæ of the last Supplement. In the case of camphorated oil it is probable that mineral oil will be employed as a

vehicle, and it will not be long before the increase in the price of heavy paraffin oil will produce other complications.

Linseed oil finds many uses in the treatment of animals, both internally and externally. It is administered to horses and cattle in quantities of one to two pints, and in smaller doses to sheep and pigs. It is considered one of the indispensable medicaments for animals. Owing to the Oils and Fats (Requisition) Order, makers of veterinary medicines have found it difficult to obtain supplies of linseed oil for this purpose, which, after all, is only a minor use of the oil. The Linseed Oil Consumers' Association, to which applications have to be made, has been unable to obtain the issue of priority certificates owing, it is stated, to the congestion of work in the Department of the Ministry of Munitions which deals with the matter. The Parliamentary Secretary of the Ministry of Food states that the limited stock of linseed oil in the United Kingdom is allocated, first, for food-purposes, and, secondly, to soap and candle manufacturers for the separation of the glycerin; but arrangements have now been completed for the more prompt issue of priority certificates in the case of persons requiring linseed oil for veterinary purposes. We understand, however, that, as a rule, quantities under two tons do not require priority certificates. The fatty acids which remain after the glycerin has been separated by the soap and candle makers are allocated for making soap and candles, paints and varnishes, and linoleum.

Another difficulty which has arisen in the trade is in regard to the announcement that under the Food-hoarding Order it is not permissible to preserve eggs unless they are home-produced. The time is approaching when eggs would in the ordinary course become more plentiful, and many households make a practice of preserving eggs by means of water-glass. The sale of water-glass has been very large of recent years, but must decline to infinitesimal proportions if the present attitude of the Ministry of Food is persisted in. Protests have already been made in regard to this matter, and as we understand that the Food Controller is hesitating as to whether some relaxation of the Order should be allowed in the case of eggs, we hope the correspondence which he is receiving will cause him to take a more reasonable view of the matter.

Hamburg's War Problems.

THE Germans are greatly exercised in their minds as to what is to be the position of the Port of Hamburg after the war, and how grave this anxiety is can best be indicated by the fact that the Hamburg Bürgerschaft has asked for the appointment of a Commission, to consist of ten members of the Bürgerschaft and five members of the Senate, "to prepare the measures required to assure the necessary foundations for the restoration and renewed expansion of Hamburg's trade, shipping, and industry after the war." Undoubtedly the trade and shipping of Hamburg have almost received their death-blow through the war, both having been reduced to a shadow. The Germans do not conceal the fact, but they hope eventually to regain all and more than has been lost, and the question is, Have they the strength to carry out the task? A correspondent of "Welthandel" writes at length on this subject as to the methods to be adopted, and he comes to the conclusion that Hamburg after the war must look to the development of its relations with the European inland markets, which it can only compass if it has at its command an industry with a large output. What this industry is he does not say, but new and cheap land on the Elbe must be had for industrial purposes, and he indicates that Government circles take an optimistic view of this solution of the problem. This "industry with a large output" would also be for purposes of oversea trade as well as the home markets. Naturally this country comes in for the usual amount of vituperation, which is expressed in the following manner:

"England long ago realised that after the war her chief task would be to aim economic blows at the Hanse towns—

particularly Hamburg—since she counts on the economic strength of these towns having been sapped by the long duration of the war, and all her measures are directed towards the attainment of this object. One need only call attention to the characteristic amalgamation among British shipping concerns, whose sole aim is to secure themselves in every way against a German, if not indeed a Continental, shipping coalition."

Germany, of course, does not believe that the economic campaign after the war announced by the Entente will prove anything but a fiasco, but quite recognises that our plans must be nipped in the bud, and this is why Hamburg is seeking State aid. Hamburg was formerly London's most formidable rival in the produce-trade, and was by far and away the first port on the Continent, although, so far as access to the sea and geographical position are concerned, Hamburg had no advantage over London or Liverpool. Under the new conditions under which trading will be carried on after the war it will be the duty of London citizens to see that Hamburg does not again attain its pre-war position for at least a generation.

The Saccharin-market.

THE fact has now to be recognised that saccharin as a substitute for sugar is going to be an important factor in helping to tide over the inconvenience which the nation has felt from the shortage in that commodity. Previous to the war saccharin and other artificial sweeteners were almost exclusively used in the aerated and mineral water trades, and our sources of supply were extremely limited, these articles being mostly imported from the Continent. Moreover, there is a comparatively high Customs and Excise duty on saccharin and similar sweetening-substances—it is now 4s. 6d. per oz. or 72s. per lb. This duty has, of course, varied in correspondence with the sugar-duties, but the amount of revenue yielded has always been relatively small. Our imports of saccharin during the past eleven years have been as follows:

	oz.		oz.
1906 ...	633,533	1912 ...	1,008,669
1907 ...	607,309	1913 ...	1,069,279
1908 ...	592,576	1914 ...	1,265,664
1909 ...	639,515	1915 ...	1,799,294
1910 ...	587,147	1916 ...	1,744,726
1911 ...	685,039		

The above imports from 1912 to 1916 were derived from the following sources:

	1912	1913	1914	1915	1916
	oz.	oz.	oz.	oz.	oz.
Germany ...	1,023,932	1,126,376	1,178,351		
Netherlands ...	2,993	79,415	314,557	420,946	30,632
France ...	4	3		116,481	9,581
Switzerland ...	249,584	35,680	149,920	1,323,651	263,695
United States of America }	110	113	10,646	160,901	7,003
Other foreign countries }	—	—	—	2,159	37,002
Total from foreign countries }	1,278,623	1,241,587	1,653,474	2,111,338	347,893
Total from British Possessions }	35,472	626	3,240	12,845	8,461
Total (oz.)	1,314,095	1,242,213	1,656,714	2,124,183	356,354
Value ...	£15,438	£14,425	£22,438	£64,767	—

On a question of policy it was officially decided not to publish the 1917 figures. We note in the last Report of the Customs and Excise for the year ended March 31, 1916 (the latest available), that no saccharin has been made in this country since 1911-12. In that year 301,586 oz. (made in England) was charged to Excise duty, the yield being 8,517. That was practically the state of affairs at the outbreak of war, and it is only during recent months that attempts have been made to resume manufacture in this country, because the Government would not release sufficient supplies of raw materials. During the past year or so, and especially since the introduction of the sugar-rations, there has arisen an enormous and still growing demand on the part of the public for saccharin tablets throughout the country, and quite a considerable number of firms have erected plant

for their manufacture, which up to the present has proved a profitable undertaking, in spite of the very high and fluctuating prices of saccharin. Most of these makers have, however, been dependent for their supplies on numerous importers and dealers, who can only obtain small lots as a rule; and some of these people have not hesitated to take advantage of the urgent and growing demand and comparative scarcity to secure large profits for themselves, and consequently prices have attained extraordinarily high and fluctuating levels, because many parcels before they reach the actual tablet-maker have changed hands several times at advancing prices. This may be a form of "profiteering," but it is merely speculation and part of the ordinary routine of commerce, which may apply to any other chemical or drug the demand for which exceeds the supply—e.g., in regard to saccharin a dealer may buy 5 lb. or 10 lb. at, say, 340s., and sell at 350s., and buy the same parcel back again at 360s. and sell at 370s., or he may buy to come forward at, say, 200s. c.i.f. and sell at 300s. or more when the goods arrive. The saccharin-business has assumed so much importance, however, in relation to sugar that persistent reports have been current for the past fortnight or more that the Government are about to intervene, with the object of stopping "profiteering." It has been freely mentioned that the authorities are going to commandeer stocks and fix a price of 120s. or 130s. per lb. inclusive of the duty. But, as we have before pointed out, until the Government are actually able to place sufficient quantities on the market it will not be much use fixing a price, unless it is one at which they will commandeer the stocks of those dealers who have been found "profiteering." At present, there is no doubt, the home output is too small to warrant intervention, and the situation requires delicate handling if the importer is not to be discouraged and driven out of business. Meanwhile, these reports have put the tablet-makers in a dilemma, as naturally they do not wish to be caught with stocks of high-priced saccharin, and some have got rid of their goods as quickly as possible. This, of course, may lead to a decline in the production of tablets, so that the quicker the Government announce their intentions the better, as a growing industry may be jeopardised by Government inability to grasp the situation in time. Meanwhile every effort is being made to stimulate production in this country with Government assistance, and on February 5 Sir Charles Bathurst made the optimistic statement that the output "in the course of next month" would be more than trebled and the price reduced. We hope this statement will be fully justified, but we are not very sanguine, as we learn that the Government are mainly relying on one source. We understand they are working in conjunction with the United States Government in regard to imports, and this seems to point to official action later. Fortunately for us, America has been able to increase her output of saccharin considerably, and quantities far in excess of her domestic consumption have been made. About a month ago America placed an embargo on this synthetic, but we understand that it has now been lifted until the middle of March (when it may again be imposed), so that regular shipments will be resumed. It is a curious fact that in America the use of saccharin in food is prohibited, and it is urged that this Order should be rescinded for the period of the war, as such a step would naturally reduce the scarcity of sugar in that country. The importation of saccharin from the United States is a business which has attracted a large number of firms who have little or no previous knowledge of the chemical-trade, and in some cases the money has been sent to firms who have sprung up in the night and no saccharin has been forthcoming. Some imports have also been found to be adulterated, so that it is advisable to deal only with firms of good repute. Prices in America have been as erratic as in Britain, and at the moment there appears to be little or nothing offering for forward shipment, which points to the fact that imports are to be "controlled," and a price fixed which will leave a fair profit only. From the above it will be inferred that pharmacists should see that their stocks are reduced to the lowest possible point.

Insurance Dispensing Difficulties.

X. General Survey.

As a conclusion to this series of articles on Insurance dispensing difficulties it may be permissible to make a general survey of the ground covered, and to submit a few suggestions with the object of increasing efficiency and securing smoother working all round. So far as regards the supply of appliances, the main point is to see that the prices fixed, month by month, are those at which druggists' sundriesmen generally are prepared to supply the goods. Another point is the continual prescribing of jaconet and Gamgee or absorbent wool-tissue, both of which are as continually disallowed by the Pricing Offices. Since a stouter protective than oiled silk is frequently needed, and jaconet supplies the want at a considerably lower cost than that of oiled silk, there does not appear to be any sufficient reason why doctors should not be allowed to prescribe, and chemists to dispense, it. As regards absorbent wool-tissue, which is badly needed at times by patients, non-proprietary makes of this are readily obtainable if it is, as we think, an idea of the proprietary character of Gamgee tissue which precludes its addition to the Second Schedule. On the broad question of the supply of proprietaries there is only this to be added—that the moneys available for the supply of medicines to insured persons could be made to go much further if proprietaries were only allowed in cases where there are no really efficient non-proprietary equivalents. It is, of course, well known that there are no truly satisfactory substitutes for proprietary preparations which really involve distinct advances in pharmacy, and it should not be especially difficult to compile a list of these for general use in connection with National Health Insurance work. The glycerin and sugar difficulty seems to be in a fair way to settle itself, but the arrangements in different areas might well be brought into line, and a plea for uniformity in the dispensing of medicines may not be out of place. It would be highly regrettable if in this or any other respect force should be lent to the contention that the supply of medicines for insured persons is inferior to that for other patients. Methylated preparations are now to be prescribed and dispensed on the lines suggested in our article on the subject (*C. & D.*, January 26, p. 44), and this solution of the problem must be regarded as satisfactory in existing circumstances, though it cannot legally be applied in ordinary dispensing. Homœopathic preparations require no further comment, especially in view of the fact that chemists who dispense them appear to be satisfied with the remuneration they receive. The question of pricing and checking is the one which must always continue to receive the closest attention of panel chemists and their representatives, because the adequacy of the remuneration for National Health Insurance dispensing depends ultimately upon the arrangements for pricing and the strictness of the checking. Neither as regards the fixing of charges nor the checking of prices and accounts are the interests of panel chemists as a whole yet properly safeguarded. We have endeavoured (*C. & D.*, February 9, p. 44) to outline a system of checking which might reasonably be considered efficient. Such a system, we find, is already in force in Middlesex, and panel chemists in other areas would do well to note the undoubted superiority of the Middlesex methods, as judged by results (see *C. & D.*, February 23, p. 46). Turning to irregularities in prescriptions, these are an endless cause of trouble to chemists, but it is sound policy not to pass any of that trouble on to the Pricing Offices. All irregularities should be properly dealt with and smoothed out before the chemist passes on the prescriptions for pricing purposes; otherwise he will find that he has only made more trouble for himself, besides creating unnecessary trouble for others. Dispensing-fees and pricing-charges are matters to be taken at once into serious consideration in preparation for the next annual revision of the panel chemist's terms of service. Meanwhile, we may add, any further difficulties in connection with National Health Insurance dispensing work with which our readers may be met will at all times receive sympathetic consideration.

Westminster Wisdom.

By the "C. & D." Parliamentary Representative.

DENTAL ACTS COMMITTEE.

Our Parliamentary correspondent learns that after its sitting on March 6 Mr. F. D. Acland's Departmental Committee on the Dental Acts adjourned until the second week in April, when the curriculum question will be gone into.

BRUSH-MAKING BY WAR PRISONERS.

Sir George Cave stated in the House of Commons recently that an interview is being arranged with the Brush Manufacturers' Association in regard to the brush-making factory that has been started in the Isle of Man for war prisoners.

OVERSEAS TRADE ADVISORY COMMITTEE.

Sir A. Steel-Maitland, in reply to a question in the House of Commons on February 27, stated that it is not intended to include a special representative of commercial travellers on the Advisory Committee of the Department of Overseas Trade.

POISONED SWEETS.

The Home Secretary stated in the House of Commons recently that sweetmeats, which it was suggested had been dropped from German aircraft and were poisonous, had been examined and found to contain traces of arsenic such as might have been due to impurity in the materials of manufacture.

MINISTRY OF RECONSTRUCTION.

Mr. Arthur M. Samuel, Norwich, has been nominated by the Association of Chambers of Commerce, on the invitation of the Minister of Reconstruction, a member of an informal Standing Committee to consider as rapidly as possible the best means of summoning joint conferences and grouping trades for that purpose.

COCOA-BUTTER.

Mr. Clynes stated in the House of Commons on February 28 that West African and West Indian cocoa contains about 50 per cent. of cocoa-butter, on which, sold by retail in the United Kingdom, a duty of 4½d. per lb. is imposed. Since, however, there are already comparatively large stocks of cocoa-beans in the United Kingdom, and since the output of cocoa-powder and cocoa-butter is limited by the capacity of the manufacturing plant in this country, it has been thought advisable to restrict to a certain extent the importation of West African and West Indian cocoa. The export of cocoa-butter from the United Kingdom is already prohibited.

THE USE OF SACCHARIN.

The Parliamentary Secretary of the Ministry of Food stated on February 28 that the conclusions as to the harmlessness of saccharin, when taken in ordinary quantities, were based on investigations made in 1911 for the United States Department of Agriculture. Doses up to 5 gr. daily—i.e., fifteen times the strength of the usual tablet—were found during long periods to cause no disturbance whatever of digestion or detriment to health in normal adults. A recent report of the Royal Society stated, however, that evidence is lacking as to whether saccharin is equally harmless to children, also that it is in no sense a food, but merely a flavouring agent. He added that the conclusion would seem to be that sugar should be given to children, while saccharin may be quite safely taken in moderate quantities by healthy adults in tea, coffee, and mineral waters.

Wills.

MR. CHARLES GORTON, chemist and druggist, 146 High Street, Whitechapel, London, E., who died on December 3, left estate of the gross value of 10,716l. 8s. 5d., of which 9,949l. 3s. 8d. is net personality.

MR. DAVID COCHRANE JOHN HAMILTON DOBIE, chemist and druggist, 29 Whitellets Road, Ayr, who died on July 31, left personal estate in the United Kingdom valued at 7,610l., of which 7,184l. is Scottish estate.

CLINICAL THERMOMETERS.—Sir Richard Glazebrook stated at the Royal Institution that, whereas 23 or 24 per cent. of the clinical thermometers examined at the beginning of the war were failures, of 90,000 tested during the last few months only 1 per cent. were failures.

Personalities.

MR. CHARLES T. CARTER, dispenser to the Dorset County Hospital, Dorchester, has held the appointment for forty-eight years.

A NATURALISATION CERTIFICATE has been granted to Rosa H. Feitelsohn (known as Fichtelson, a Russian), 29 The Drive, High Barnet, dispenser.

ON MARCH 8 a presentation will be made to John Stevens, on the occasion of the completion of his sixtieth year of service with Thomas Morson & Son, Ltd., Summerfield Chemical Works, Ponders End.

PROFESSOR CHARLES H. LA WALL has been nominated to succeed the late Professor J. P. Remington as Dean of the Philadelphia College of Pharmacy. Mr. La Wall is President-elect of the American Pharmaceutical Association.

THE ANNUAL REPORT of the Southport Infirmary records that the Board of Management have accepted with regret, on account of ill-health, the resignation of Mr. J. R. Cave, chemist and druggist, from the position of dispenser to the Infirmary, an office which he held for twenty-seven years to the entire satisfaction of the Board. The vacancy has been filled by the appointment of Mr. S. J. Elliott, chemist and druggist, who will devote his whole time to the work.

MR. WILLIAM SUTCLIFFE, chemist and druggist, who has been elected President of the Bradford Pharmacists' Association, has been Vice-President for two years and a member of the local Pharmaceutical Committee ever since its inception. He is a native of Bradford, was educated at the Crossley Schools, Halifax, and served his apprenticeship with the late Mr. John Faull, Westgate, Bradford. Subsequently he studied at the Bradford Technical College and the Northern College of Pharmacy, Manchester, qualifying in 1899, when he returned to Bradford to take over the management of Mr. Faull's business in Tong Street.

THE "scientific man of good standing, who would command the respect and confidence of the trade," who was recommended by the Committee on the Chemical Trades, has been found in Mr. W. J. Uglow Woolcock, the Registrar and Secretary of the Pharmaceutical Society. He has been appointed Secretary of the Association of British Chemical Manufacturers, the constitution of which was outlined in our last issue (p. 44). This Association will be recognised, according to the Whitley scheme, as representing the whole of the chemical industry of this country. Mr. Woolcock's new position will not be one of ease, as the work which lies before him is of such national importance that one with less confidence in himself than Mr. Woolcock might well have hesitated to tackle it. We offer him our sincere congratulations. He leaves behind him at the Square a record of which any Secretary might be proud. We understand that Mr. Woolcock's ambition to enter Parliament will not be compromised by the move, but he will not go there as Parliamentary Secretary for the Pharmaceutical Society. We hope, however, that if he becomes a member of Parliament he will not forget that it was pharmacy that formed the lower rungs of the ladder of his progress in life.

Tales of Oenophus.

XII.—Johnne's Sonne and Jackke's Sonne.

BEFORETIMES hath been recounted divers Deedes of Derring done by Jackke's Sonne of Hereforde, ye ferie Prophet of Higher Prophets.

Anon hys sleeplesse Tytyngs atte ye Peeayteeaye Ringe bath, atte length, brought hym Uppe Against it with Johnne's Sonne of that like. Thus hath resulted Certayne Evill Humours, butte, soe farre, no actual Sheddynge of Gore.

For ye Antiente Corporations of Peeayteeaye having acquired of Long Usage ye Bureaucratick Mantel resengeth Reformatione.

"Recostructione—for Others—is a Truly Fine Game, butte for Us," quoth Johnne's Sonne, in hys Wrathe, "it is Utterlie Superfluous."

Ye whyche goeth once more to proove ye Moss-gatherynge Tendencie of Institutiones Come of Age. Ye Loftie Ideals of Flamboyante Youthe succumb to ye Reluctancies of Maturity.

"Shunne Brecknekednesse of Alle Thynges," counsellth ye Sage Sonne of Johnne, "twere better farre to keep onne Lappynge ye Waters of Lethe. For ye Fixt Minimum Pryce of Progresse is Problematick."

Butte ye Sonne of Jackke remayneth Unsquasht.

Associations' Winter Session.

Aberdeen.—The first annual general meeting of the Aberdeen Pharmacists' Golf Club was held on February 26, the Captain (Mr. A. Gordon Beattie) in the chair. Satisfactory reports were made regarding the success of the Club during its first year. A challenge cup had been presented by W. Paterson & Sons, and rules for play for this and the Ness Cup, presented by Bailie Ness, were announced. The office-bearers for 1918 were elected as follows: *Captain*, Mr. A. Gordon Beattie; *Vice-Captain*, Mr. W. F. Hay; *Secretary*, Mr. J. Farquhar; *Treasurer*, Mr. W. G. Mitchell.

Belfast.—The annual meeting of the Chemists and Druggists' Society of Ireland was held on February 27 at the



Photo A. E. Hogg, Belfast.

Mr. E. J. ROBERTS, the newly elected President, is one of the best-known members of the retail drug-trade in Belfast. He served his apprenticeship with Mr. S. Gibson, King Street, Belfast, was afterwards assistant with William Dobbin & Co., and had other experience prior to setting up for himself at Shankill Road, Belfast, twenty-five years ago.

set of spoons in recognition of his long service to the Society. A varied and well-executed programme of music and recitations completed a successful evening.

Edinburgh.—The fourth meeting of the fortieth session of the Edinburgh Chemists', Assistants', and Apprentices' Association was held at 36 York Place on February 20, Mr. James Adamson (President) in the chair. Mr. W. S. Glass, Ph.C., read an interesting practical note on *The Making of Aromatic Waters*. He contrasted the quality of aromatic waters prepared by the usual official method of distillation with the waters prepared by dissolving essential oil in warm distilled water. The samples of the two methods exhibited showed a finer and stronger aroma on the part of the waters prepared by the latter method. He suggested that in the distillation process a better product would be obtained if the Pharmacopoeia directed the material to be macerated with the water for a stated period before beginning distillation. Mr. J. Rutherford Hill, Ph.C., in continuation of a series described as *Back-shop Experiments*, showed a simple method of producing vortex rings in illustration of Lord Kelvin's application of Helmholtz's theory of vortex atoms. The vortex rings are produced by perforating through the lid of a cardboard box a circular hole about the size of a penny piece. Inside the box are placed two small capsules, one containing strong liquid ammonia and the other strong hydrochloric acid. The dense fog thus produced is forced through the opening in the lid of the box by tapping on the bottom of the box so that a complete vortex ring is driven out each time the box is tapped. The second experiment was a demonstration of the so-called chemical rainbow, by which (with a suitable solution in a series of seven small vials, to each of which an appropriate reagent is added) there results a series of red, orange, yellow, green, blue, indigo, and violet colours. This furnished a text for explaining the discovery of the complex nature of white light by Sir Isaac Newton, and was illustrated by means of suitable diagrams and a small hand spectroscope. The discovery of dark lines in the solar spectrum by Fraunhofer, and their significance as the basis of spectrum analysis and solar and stellar chemistry, was explained by means of coloured spectra

of the various metals. On the motion of the Chairman, cordial votes of thanks were awarded to Messrs. Glass and Hill.—At the meeting of the Edinburgh District Chemists' Trade Association on February 25, Mr. James Dick (Chairman) presiding, Mr. W. W. Brown (Hon. Secretary) read a paper on *Organised Pharmacy: As it Is and as it Might Be*. After commenting on the generally expressed need for reconstruction and reform in pharmacy, as evidenced by the trade Press, Mr. Brown said that the greatest need to-day is the setting-up of machinery that will effectively ensure that in all matters pertaining to the business of professional side of pharmacy the will of the majority shall prevail, and that the power to act shall be in the hands of men who are thoroughly representative and who know the real need of their fellows. Regarding the Pharmaceutical Society Mr. Brown said that a considerable proportion of qualified men and a few—a very few—women (the average woman is far too astute to take anything for granted) conduct business in the belief that the Society is a sort of god-mother or protector who thinks for them, legislates for them, and provides for their every need; and it is that attitude and spirit that does pharmacy infinite harm. He urged that it is the duty of every member of the Society to send to the Council the best representatives obtainable, thoroughly representative of the rank-and-file and knowing their aspirations and needs. The unit of organisation should be the local Association, which must be an active, energetic, working body; and then (speaking for Scotland only) Mr. Brown advocated a Federation of Local Associations, giving details of his proposals and setting forth the advantages of such an organisation in such matters, e.g., as profits on proprietaries and face-values. The reading of the paper was followed by an interesting discussion, taken part in by Messrs. Fisher, Dick, Glass, McLennan, Nisbet, A. Duncan, Nightingale, Muir, Hill, and Mackenzie. On the motion of Mr. Fisher a cordial vote of thanks was awarded to Mr. Brown. Thereafter it was moved by Mr. Brown, seconded by Mr. Nisbet, and unanimously agreed, "That this meeting of the Edinburgh District Chemists' Trade Association empowers its Executive Committee to take steps to ascertain the opinions of other Scottish Associations with reference to Federation, enclosing a draft of Mr. Brown's scheme; and should the Committee find it necessary to arrange, or help to arrange, in calling a Conference of delegates at some convenient centre to discuss the subject power is granted to them to do so, and to report."

Exeter.—At the meeting of the Exeter and District Pharmaceutical Association on March 1 (Mr. Eric Lemmon presiding), it was decided to support the Proprietary Articles Trade Association in the endeavour to secure an adequate profit on proprietary foods and medicines. It was also resolved to continue the rota for all-day service on Sundays and Bank holidays, and otherwise to open only for one hour at midday and two hours in the evening on those days. It was further agreed to close all pharmacies on weekdays at 7 p.m., emergency business being transacted up till 9 o'clock.

Huddersfield.—A meeting of the Huddersfield Chemists' Association was held on March 4, Mr. V. Shaw (President) in the chair. Letters were read as to what is being done in other towns with regard to a minimum price-list. In the discussion it was said that Boots, Ltd., are in the way of the adoption of such a list, but one Association had reported that a local list had been prepared to which Boots, Ltd., had promised to adhere. It was decided to discuss this subject at the next meeting. It was agreed to support the Dublin Retail Drug Association in their action regarding proprietaries. The Sub-Committee on recruiting reported that they had gone through the list of the National Service Representative, and had decided that, having regard to the large increase of population owing to the establishment of British Dyes, Ltd., in the district, no more men could be spared for the Army from the ranks of the Huddersfield pharmacists. This report was approved.

Sheffield.—A meeting of the Sheffield Pharmaceutical and Chemical Society was held at the Literary and Philosophical Society's rooms on February 27, Mr. A. H. Culverhouse presiding. The Secretary reported that the proprietors of the Local Trades Directory had agreed to separate the drug-stores from the list of pharmacists. A vote of congratulation was passed to Mr. Woolcock on his receipt of the Order of the British Empire. A resolution was carried expressing regret at the delay in the issue of the report of the Reconstruction Committee, it being felt that the report should be in the hands of all members of the Pharmaceutical Society before the vote is taken for the Council election. Mr. Bernard Ellis, barrister-at-law and pharmacist, then read a paper on *A Pharmacists' Trade Union*. In this, after giving an outline of the position of labour in the seventeenth and eighteenth centuries, under

the old system of trade guilds, he described the inception and growth of labour unions as a means of introducing the principle of collective bargaining on the part of the workmen, thus ensuring a measure of protection for their interests at a time when the development of manufacturing processes and the formation of large business corporations severed the close relationship and mutual interest which had hitherto existed between employer and employed. Mr. Ellis explained how the trade unions of the country had to fight for legislative recognition, making reference to the various legal cases and the Acts of Parliament by which their present constitution has been developed and is maintained. Having described how Parliamentary representation has strengthened the position of members of the unions, he urged that pharmacists should take similar action for the fuller recognition of their own status, and outlined the principles which should be followed in the formation of a trade union. These were, in brief: (1) that every pharmacist, assistant, and apprentice (over the age of sixteen) shall join; (2) that no pharmacist, either alone or in partnership, shall own more than two pharmacies; (3) that no pharmacist shall take more than two apprentices at one time, and no salary shall be paid during the first three years of apprenticeship; (4) that no member of the union shall work for any multiple shop, public company, drug-store, co-operative society, medical herbalist, or botanist in Great Britain; (5) that all negotiations for State pharmaceutical service shall be submitted to a vote of the members; (6) that none but qualified pharmacists shall be employed as dispensers at hospitals and other public institutions; (7) that the Army and Navy shall be supplied with qualified pharmacists holding commissioned rank; (8) that all proprietary articles and sundries shall be sold at face-value, with a minimum profit of 33½ per cent., failing which terms no member shall stock the goods; (9) that hours of business be fixed by a majority vote of the members; (10) that no member shall sell the goods of any wholesale manufacturing chemist who supplies others than pharmacists; (11) that every apprentice shall be entitled to certain hours weekly for study; (12) that pressure be brought on the Pharmaceutical Society to hold its own examinations, the Preliminary standard to be raised and the Minor divided into two parts; (13) that the union shall be prepared to co-operate with the National Medical Guild or any other trade union in the interest of pharmacists; (14) that all pharmacists now employed in multiple shops, public companies, etc., be eligible for membership on resigning their present positions. Mr. Ellis then submitted a draft set of rules and detailed the advantages to the pharmacist of such a trade union as was suggested. An animated discussion followed, and, on the proposition of Mr. Leighton, a resolution was carried to the effect that it is desirable to form a National Pharmacists' League on the lines of Mr. Ellis's paper. A hearty vote of thanks was passed to Mr. Ellis.

West Bromwich.—The monthly meeting of the West Bromwich Pharmacists' Association was held on February 26, Mr. Hampton (President) in the chair, when a lecture on *The Power of Music* was given by Dr. Selwyn Edwards, and was followed by a programme of music, rendered on one of the latest types of gramophones. On the proposal of Mr. White, seconded by Mr. Withers, a hearty vote of thanks was accorded to Dr. Edwards.

Wrexham.—The Wrexham and East Denbighshire Pharmacists' Association met at the Regent Pharmacy, Mr. C. G. Caldecott presiding, when it was decided to forward three guineas to the Pharmaceutical Parliamentary Fund. The meeting approved of the effort to obtain face-value for proprietary goods, with a profit of 20 per cent. on foods, 25 per cent. on patents, and 33½ per cent. on toilet-articles. The Secretary was instructed to communicate with the owners of non-P.A.T.A. goods selling in the district urging them to place such articles on the Association's list.

KAPOK AS A SURGICAL DRESSING exerts selective absorptive properties, removing micro-organisms from pus.

WHAT IS GERMAN KULTUR? A certain efficiency of government obtained by keeping the majority of the people out of all voice in governmental affairs; a certain low cost of manufactured products or of carrying charges in the shipping trades made possible by enslaving the workmen, who toil long hours for small wages; a certain superiority in chemical production because trained chemists, willing to work at one semi-mechanical task, can be hired for less than a Fifth Avenue butler is paid in America; and a certain pre-eminence in military affairs reached by subjecting the mass of the people to the brutal, boorish, non-commissioned officers and the galling yoke of a militaristic system. Subtract the German Jews, and in the lines of real culture there would be little of the real thing left in Germany.—Mr. J. W. Gerard in *"The Times."*

Insurance Act Dispensing.

A Record of matters concerning Chemists' interests in the National Health Insurance Acts.

Reports from Local Centres.

ENGLAND.

Bradford.—The published report of the Insurance Committee for 1917 (mentioned in advance in the *C. & D.*, February 9, p. 46) shows that the number of chemists' shops on the panel at the close of the year was seventy-three, under the control of fifty-nine persons or firms, the numbers being the same as at the beginning of the year. The Committee regretted there was no lady doctor on the panel, and had granted the applications of twelve women to arrange with a lady doctor for treatment.

Dorset.—For the half-year ended June 30 last the average cost per prescription was 6.69d., as compared with 6.33d. for the district covered by the South-Western Joint Pricing Committee; total cost per insured person, 10.82d., as compared with 10.37d.; and frequency per insured person, 1.61, as compared with 1.63.

Sheffield.—At the meeting of the Insurance Committee on March 6, payment to chemists was ordered of 826l. 9s. 1d. on account of December and January, and of 150l. to the Pharmaceutical Committee for administrative expenses.

Southport.—The report of the Finance Sub-Committee recommends payment to chemists of 105l. 15s. on account of December and January. Mr. J. Joye has resigned from the chemists' panel, and his successor in business, Mr. W. H. Prescott, has joined the panel.

West Bromwich.—At a meeting of the Pharmaceutical Committee held on March 5, it was decided to accept the Checking Bureau's terms for 1918. The Chairman and Secretary were authorised to interview the Clerk to the Insurance Committee regarding a special arrangement made by that Committee and a panel doctor, and to ascertain how this arrangement affected the rural areas question; also to interview the Supervisor of the West Midland Pricing Bureau regarding settlement of 1916 accounts. Mr. Ridyard's letters on the rural areas question were read and discussed. The Checking Bureau's report on the 1917 prescriptions (10 per cent. check) showed that the pricing was, on the number checked, satisfactory—more so than in 1916. The Secretary was authorised to pay the Checking Bureau 9l. 9s. for the work done. The total value of prescriptions dispensed in 1917 was 1,601l. 7s. 7d.

WALES.

Denbighshire.—A joint meeting of the Insurance, Panel, and Pharmaceutical Committees was held at Wrexham on February 27, when it was decided to adopt the War Emergency Formulary from March 1. The prescriptions dispensed during 1917 numbered 66,331, at a cost of 1,717l. 1s. 1d., an increase of 254l. 15s. 11d. over the preceding year.

Monmouthshire.—The Insurance Committee met at Newport last month, when a letter was read from the Welsh Commissioners regarding the failure of the Committee to arrange for the dispensing of stock mixtures. The Panel Committee selected ten stock mixtures from the approved list some fifteen months ago; but the Medical Benefit Sub-Committee refused to recognise such selection, as it had no voice in the adoption of the Drug Tariff or the list of stock mixtures, and the Insurance Committee had not notified the chemists of the selection which had been made. The Commissioners now write that they will take steps to ensure that an improper charge for dispensing such mixtures does not fall on the Treasury. The Committee approved of an agreement with the Cardiff Committee for the pricing of prescriptions for the current year.

Pembrokeshire.—At the last meeting of the Insurance Committee it was reported that the chemists in the county were prepared to supply malt and cod-liver oil under the County Council scheme upon the same terms as these were hitherto supplied to the Welsh Memorial Association.

Note.

THE TUBERCULOUS SOLDIER.—A good deal of attention has been drawn to a little book written by the Clerk to the Brighton Insurance Committee, Mr. Thos. Denman, dealing with the problem of the discharged tuberculous soldier. At present, after leaving the Army, he goes home and becomes a charge on the local Insurance Committee for medicine, etc. As is well known, sanatorium accommodation for civilian consumptives is already insufficient, and when one learns that the number of consumptive soldiers who will

be discharged from the Army will exceed 200,000, it will be seen how hopelessly inadequate the present machinery is. Mr. Denman's idea is to get over the reluctance on the part of the patient towards entering a sanatorium by bringing into existence in suitable places throughout the land consumptive villages. Church, school, shops, and recreational facilities would be provided, and the whole of the inhabitants would live under such hygienic conditions as are an essential feature in effecting a tubercular cure.

Gazette.

Partnership Dissolved.

BROWN, R. W., and GOODMAN, C., 81 and 83 Sweet Street, Holbeck, near Leeds, and formerly at 579 Meanwood Road, Leeds, chemists and druggists, under the style of J. N. Horsfield & Sons.

Book Notes.

HINDU MEDICAL LORE

begins, so far as documentary evidence is concerned, with the Charaka Samhita, or collection of Charaka, and the slightly later Susruta, the date of neither of which has been determined. Charaka is reputed to have been physician to King Kanishka, about 100 A.D., but some writers place him centuries later than this, and some, like the author of the brochure before us,* as many or more centuries earlier. The writer referred to, however, wisely abstains, for the most part, from giving dates; what he is concerned to do is to determine the order of succession of the principal medical works of ancient India, from Charaka to Bhambamisa, who is usually placed early in the sixteenth century of our era. The Atreya school is his main theme, the Dhanwantari school, he deals with incidentally only; the former were physicians, the latter surgeons. The story begins "in the far backward and abyss of time" with the mythical receipt from Heaven of the Atreya, the nucleus of native Indian medical lore, which was given by Indra, the Indian Jupiter, to the sage Bharadvaja, who taught the healing art to Punarvasu, son of Atri, another of whose names was Atreya. He is the speaker in the Charaka Samhita, and the physicians are named after him as belonging to the Atreya school. The date of Atreya, the son of Atri, must, says our author, have preceded that of Buddha (about 550 B.C. by long centuries, yet the Compendium of Agnivesa, who was contemporary with him, is said to have been the foundation treatise of the Charaka Samhita, which, as it now exists, is an expansion of some of its chapters, supplemented by others from the pen of a later writer than Charaka, named Dridhabala. In the Ashtanga Samgraha of Vagbhata, the next writer of capital importance, whose date is usually given as of the ninth century, the teaching of the Atreya school is blended with that of the school of Dhanwantari. Vagbhata, a native of Sind, was a Buddhist and a very religious man. He apologises for incorporating in his work that of other writers who did not share his faith. His style is said to be "simple, lucid, and interesting," and he describes the properties of "individual medicinal drugs as apart from the class"; his work has, in short, all the advantages of a materia medica. His latest treatise, the Ashyanga Hridaya, unlike earlier Hindu works of the kind, which are in a mixture of prose and verse, is altogether in verse, which, we are told, is peculiarly suited to the genius of the Sanskrit language. A somewhat later work of the same school, the Nidana of Madhava, supplements Vagbhata by dealing principally with pathology. Vrinda and Chakrapani, who follow him, wrote mainly on treatment, and were little more than compilers. The date of the latter is given as about 1040 A.D. (this is the only date given in the work under review). Both of them throw much light on the uses of various drugs in their time. Chakrapani was a great advocate for the use of mercury and other metallic medicines. The part played by early Hindu medical writers in the history of medicine does not come within the view of the author of this pamphlet: they are said, however, to have been to some extent influenced by the Greeks, and to have had in turn some influence on the Arabians.

* "An Account of the Principal Works of the Atreya School of Medicine, with their Chronology." By Kavara Brijala Charan Gupta Kavilushana. Published by P. S. Gupta, 44 Beadon Street, Calcutta, 1917.

Trade Report.

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling and the like. Qualities of chemicals, drugs, oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities. As a result of the War wholesale houses have had to contend with many fresh difficulties, some of which have involved greatly increased expenses. Shortage of labour with higher wages (equal to almost double pre-war rates) has a direct effect upon values of goods, as also have railway carriage, freights, cartage, and other charges. The foregoing and other incidental outlays prevent retail buyers purchasing at the market prices quoted here.

42 Cannon Street, E.C. 4, March 7, 3 p.m.

This is National War Bond Week, and the Metropolis is endeavouring to raise one hundred millions sterling to carry on the war. Public enthusiasm has been aroused by the advent of the Tanks in the City, one of which is located at the back of the Royal Exchange, and the quadrangle of "Change itself, where the chemical and drug trade assembles, has been given up to the sale of War Bonds and Certificates, to the accompaniment of an orchestra. As regards business, there has been considerable more inquiry for synthetic chemicals, and the effect of the shortage of many is beginning to be keenly felt, and this has caused prices to advance in several directions. In some cases there is an acute scarcity owing to the refusal to grant licences on the part of the United States Government. There seems to be little or no excuse for the withholding of such licences, for delivery from stocks in New York and such delays are creating a difficult position in regard to necessitous medicines. Bromides, e.g., have become very scarce on spot, particularly potash and ammon., and prices are higher. Methyl salicylate and hexamine are selling at higher prices. Salol is firmer, and more attention is being paid to salicylic acid; the shortage in quinine is becoming acute. Cassara sagrada and clove oil are much dearer. Aloin has advanced slightly. Cream of tartar is again higher; tartaric acid is firmer, and citric is easier. Vanillin is easier in second-hands. Few offers of produce are being sent from Japan at the moment owing to the political situation. A good business has again been done in farina and agar-agar. Improved values have prevailed for dementholised oil of mint, as American tin and bottled oil is practically cleared on the spot. Good arrivals of Japanese refined camphor have taken place, but prices are tending upwards. Menthol is firmer. Honey continues in good demand.

Higher	Firmer	Easier	Lower
Agar-agar	Aloin	Citric acid	Anise (Russ.)
Bromides	Camphor	Lemon oil	Mace
Cassara	(Jap. ref.)	Phenacetin	Shellac
sagrada	Colocynth	Vanillin	
Cassia oil	pulp		
Citronella oil	Hexamine		
Clove oil	Menthol		
Cloves	Methyl		
Cream of	salicylate		
tartar	Mint oil		
Farina	(Jap.)		
Isinglass	Pimento		
Milk-sugar	Salol		
Nutmegs	Tartaric acid		
Peppers			

The Drug-auctions will take place next Thursday, March 14.

Cablegram.

NEW YORK, March 7.—Business is quiet. Peppermint oil in tins is lower at \$3.10. Gentian is firmer at 14½c. Oregon balsam of fir has been advanced to \$1.75, and balsam of peru to \$3.00. Salicylate of soda is lower at \$1.10 per lb.

ACETANILIDE.—With practically no arrivals, spot stocks are being absorbed, and, although it is still possible to buy a limited quantity at 5s. 6d. net, the tendency is for a higher rate.

AGAR-AGAR continues active at rising prices, with spot sales at from 3s. 2d. to 3s. 6d. for No. 1 Kobe strip. Sales to arrive include No. 1 Kobe for March-May shipment at 2s. 10d. c.i.f. (at the close 3s. 3d. c.i.f. is asked), and No. 2 at 2s. 7½d.; also March-April at 3s. 3½d. c.i.f.

ALOES.—The exports from the Union of South Africa during November 1917 amounted to 23,420 lb. (195%), against 73,543 lb. (681%) during November 1916. For the eleven months ending November 1917 the exports were 723,963 lb. (6,570%), against 925,605 lb. (8,623%) in 1916.

ALON.—English make is rather dearer at 5s. 4d., and re-crystallised at 10s. per lb.

ANISE.—Russian is easier at from 77s. 6d. to 80s. per cwt. on the spot.

ANISE OIL (STAR) meets only a small demand, and in view of the large arrivals taking place stocks on spot are accumulating. "Red Ship" brand is 4s. 2d. spot.

ANTIMONY.—Chinese crude is rather firmer: the comparatively low terms accepted lately refer to relatively small quantities only. Spot lots range from 43l. to 46l. Recently a parcel of Chinese white oxide of antimony was arranged for shipment to this country at about 55l. per ton c.i.f. The American market is firm but quieter.

ARSENIC.—The parcels of Japanese recently arrived have had a tendency to ease the price of Cornish make, as several of them have been disposed of at prices appreciably below Cornish, which is offered at 140l. per ton.

ASPIRIN.—At from 12s. 6d. to 13s. per lb. it looks as if prices had reached their lowest, especially as the English production must have fallen off as the result of the recent retreat of three makers. There are practically no imports from America.

BALSAM CANADA is dearer than when last quoted, offering at 5s. 6d. net.

BALSAM SULPHUR has advanced 3d. per lb. to 1s. 9d.

BALSAM TOLU.—In the absence of supplies, market is nominal at 7s. per lb.

BENZOIC ACID.—The price in U.S.A. has been advanced to \$5.50 per lb., which practically means that imports are closed to this market in the near future. More reliance has now to be placed on English make, and, as the consuming season is approaching, buyers would do well to provide their requirements.

BROMIDES have been in good demand, and many spot parcels have changed hands during the week in second-hands, dealers taking their profit on a quick and small margin. The arrivals of Japanese potassium have tended to relieve the situation somewhat, but they have been rapidly absorbed, and little is now offered from that quarter to arrive. Pending the arrival of fresh supplies from the U.S.A., the market is becoming practically bare of stock, and dealers have been getting a premium over the makers' prices. There are ample stocks of bromides in America, and it is to be regretted that the U.S. Government has not seen its way to grant licences yet for shipments to come forward to relieve the keen shortage of so essential a medicine. Potash has been selling up to 9s. and 9s. 3d. from second-hands; ammonium is also scarce at 7s., and sodium is 4s. 6d. to 4s. 9d.

BUCHU remains firm, and in the absence of arrivals is comparatively scarce, with round offering at from 5s. 6d. to 6s. as to quality, and ovals at 4s. 10d. per lb. During November 1917 exports from the Union of South Africa were nil, against nil in November 1916; for the eleven months ended November 1917 the exports were 124,110 lb. (20,154%), against 123,771 lb. (20,563l.) for the corresponding period of 1916.

CALUMBA.—A parcel of natural sorts has arrived, and will probably be offered at auction next week. Meanwhile, single bags sell at 185s. per cwt.

CAMPOR (REFINED).—In spite of the good arrivals of Japanese spot prices are well maintained at from 3s. 11d. to 4s. for 2½-lb. slabs, with sales at both prices. At the close 4s. 1d. is asked. To arrive, there are second-hand sellers of early shipment at 3s. 10d. c.i.f.; ¼-oz. tablets are quoted at from 4s. 4d. to 4s. 5d. on the spot.

CANTHARIDES have been selling more freely of late at the more favourable prices. Russian flies offer at from 11s. to 13s. per lb., as to quality, and Chinese offer at 5s. to 5s. 6d. per lb.

CASCARA SAGRADA is much dearer, with spot sales at from 127s. 6d. to 132s. 6d. per cwt., and at the close 140s. to 145s. is asked according to seller. We learn that the freight rate to London is 86s. per cwt. *via* Panama and Colon and thence by steamer, which equals about 160s. per cwt. laid down here on a c.i.f. basis.

CASSIA OIL is dearer at 6s. 9d. per lb. for 80 to 85 per cent. c.a., and to arrive 6s. 3d. c.i.f. is quoted.

CHLORAL HYDRATE is becoming scarce in the absence of arrivals; from 10s. to 10s. 6d. per lb. net is quoted for crystals on the spot.

CHLOROFORM.—The makers have abolished the discounts of 5 per cent. and 1½ per cent., making prices net. Formerly the list-price was 4s. 7d.—it is now 4s. 4d. net, with the usual reduction for quantities.

CITRIC ACID is easier, with sellers at from 3s. 1½d. to 3s. 2d. per lb. on the spot. An advice from Italy dated February 27 quotes 3s. 4½d. per lb. c. and f. English port.

CITRONELLA OIL is now held at 2s. 10d. on the spot for Ceylon.

CLOVE OIL.—Following on the advance in cloves, English distillers have raised the price of oil a further 2s. per lb. to 20s.

CLOVES are dearer, with spot sales of fair Zanzibar at from 2s. to 2s. 3d. per lb.

COCAINE.—Makers more than ever find themselves in a precarious position in regard to supplies of raw material, and this may lead to a temporary cessation of manufacture. As the hydrochloride is frequently the object of "profiteering," we have refrained from giving a price for some weeks past, but to *bona-fide* buyers we shall always be pleased to give the market value on request.

COCOA-BUTTER.—Sellers of prime English quote 2s. per lb.

COLOCYNTH has been selling at better prices, including pale pulped at 2s.; *apple* can be had at 1s. 6d. for good pale.

COPPER SULPHATE.—The home demand for agricultural purposes has become quite brisk, and more business has gone through for March-April delivery at 50l. per ton net makers' works. This is now the lowest figure quoted by makers since the quotation of 49l. for earlier delivery automatically disappeared. Deliveries beyond April stand at 52l. per ton. Dealers are not anxious sellers, and makers are well booked ahead. The retail demand is not expected to assume much importance for some months yet. New export business is virtually at a standstill, although inquiries are still coming forward. French advices state that the first third of the tonnage arranged for importation from this country under Government agreement is now in the course of delivery. The remainder will be shipped gradually as it is being produced, and will be delivered on arrival under the direction of the Ministry of Agriculture so as to remedy the deficit of domestic production. The price of 195 fr. per 100 kilos. is maintained for all deliveries to be made prior to April 1. Resales are still being made with much difficulty against contracts executed before November 21. Since the import prohibition there has been no regular market in France, while importations are made by the Government alone.

CREAM OF TARTAR.—An advice from Italy dated February 27 gives the following quotations: 99 per cent., 365s.; 98 per cent., 363s.; and 95 per cent., 359s. per cwt. e. and f. English port. On the spot (London) from 400s. to 405s. is quoted.

ERGOT remains firm, with Russian and Portuguese offering at 2s. 9d. to 2s. 10d. on the spot.

FARINA is still advancing and in good demand both on spot and forward, No. 1 Japanese selling at from 80s. to 85s. on the spot and near at hand at 83s. to 86s. To arrive, sales include February-April shipment at 77s. to 78s., March-May at 80s. to 83s. c.i.f., and April-June 77s. to 78s.; also *sweet* at 78s. c.i.f.

GALANGAL.—A limited quantity is offered at from 70s. to 75s. per cwt.

GUALICOL CARBONATE.—Although spot stocks are being steadily worked off, there is still sufficient to supply this market for some time. Current value is 115s. per lb. net.

GUM ACACIA.—Fair Kordofan sorts offer at 85s. on the spot, and March-April shipment at 78s. c.i.f.

HEXAMINE.—Some good-sized quantities are now being loaded in New York, so that the acute spot scarcity should be relieved before the month is over. Meanwhile, business has been done at from 6s. 6d. to 7s. per lb. net.

HONEY continues in good demand, and values have again appreciated, imports being on a small scale. Sales of Cuban have been made, including ordinary yellow set at 175s. and fair at 182s. 6d.; also Australian at 170s. to 175s., and nice pale set Californian at 195s. per cwt.

ISINGLASS.—At auction 220 packages new arrivals of Bonibay, Saigon, and Penang offered and sold with keen competition at irregular, but again much higher, prices.

LEMON OIL meets with a slow sale, and prices are drooping, spot sellers quoting 3s. 6d. to 3s. 10d. per lb., and to arrive 3s. 6d. c.i.f. is quoted, but with a firm order slightly less might buy.

LITHIA CARBONATE has excited a little more attention, and as very small stocks exist on spot, the price has improved to 9s. per lb.

LYCOPodium.—Spot sales have been made at from 6s. to 6s. 3d. per lb.

MENTHOL.—Spot prices of Kobayashi-Suzuki are firmer at 13s. to 13s. 3d. per lb.

METHYL SALICILATE.—With one of the principal raw

materials in America under strict Government control, higher prices are looked for. This may also affect the English production, and the feeling is that we shall see appreciably higher prices. Business has been done this week at from 5s. to 5s. 3d. on the spot.

MILK-SUGAR.—Several arrivals of American have taken place, and business has been done at various prices on the spot, including sales at from 330s. to 360s., with a limited quantity offering at 400s. per cwt.

MINT OIL is firmer and in more demand, with Japanese demethylised (Kobayashi-Suzuki) offering at 3s. 9d. to 3s. 10½d. per lb. on the spot. The exports from Japan during November were 17,438 kin, valued at 41,195 yen. During the eleven months ended November the exports were:

	1915	1916	1917
Kin	309,831	345,666	211,062
Yen	629,107	805,347	481,334

NUX VOMICA.—Judging from the recent arrivals supplies are more plentiful on spot; good clean is offered at 45s. to 46s. per cwt.

PEPPER is firm and dearer, fair *black* Singapore offering at 1s. 2½d., Tellicherry at 1s. 3½d., and Aleppy at 1s. 3½d. *White* is also dearer and in fair demand, the sales including Singapore at 1s. 9½d. to 1s. 10½d. and Muntok at 1s. 9½d. to 1s. 11d. and buyers.

PHENACETIN.—The price in America continues to decline, and must now be almost at a price unremunerative to makers. There is, however, little being shipped to this side. Present spot value is 31s. per lb.

PHENAZONE.—Permits are still being withheld, so that the anticipated shipments have not materialised. Should any important revival in the demand take place it would possibly result in the small spot stocks being cleared.

PHENOLPHTHALEIN.—Market is now very bare of supplies, and at the moment we hear of no consignments coming forward from Switzerland or the U.S.A., so that spot easily realises 45s. per lb.

QUININE.—There are still no offers from the makers, and the second-hand market seems to be practically cleared out. In fact, it would be an extremely difficult matter to buy, say, 5,000 oz. on the spot from the usual sources. It is to be hoped that ere long shipments to relieve the serious existing scarcity will be made by the Dutch makers. Meanwhile, as we suggested last week, more attention will have to be devoted to the cinchonine and cinchonidine salts.

SACCHARIN is dealt with editorially. It is felt that the intervention of the Government cannot now be delayed much longer. Meanwhile, there is a plentiful crop of rumours as to what the Government intend to do—one thing is certain, however, and that is their intention to eliminate "profiteering," so that it is in the interests of all concerned to liquidate before the price is "controlled." Spot parcels continue in urgent demand, and sales have been made at the wide range of from 300s. to 360s. for 550 strength.

SALICYLATES.—There are signs of a revival in the demand for *salicylic acid*, and some English makers are already sold well forward, and holding out for a premium on present market prices. No shipments are likely to come forward from America on the basis of the current rates, and it looks as if the English makers are going to enjoy more freedom from competition in that quarter. The spot values of from 5s. to 5s. 3d. are regarded as low, and there seems little risk in placing orders. The same remarks apply to *salicylate of soda*, except that the production in this country is relatively unimportant, and insufficient to meet the demand; the spot value is 7s. per lb.

SALOL is firmer, with sales to arrive at 10s. 6d. per lb.

SHELLAC remains nominal, the spot value of usual standard quality TN Orange being about 420s. to 430s. for small lots to consumers. A meeting of the Shellac Trade Association and the Ministry of Munitions has taken place, but no definite result has transpired beyond the fact that a certain quantity of shellac is to be shipped from Calcutta for near shipment, to be used by consumers only, and business has been done to arrive in TN at 325s. c.i.f. The stock in London on March 1 was 19,671 cases, against 46,093 cases last year and 82,910 cases in 1916.

TARTARIC ACID is firm on the spot at 3s. 4d. per lb. An advice from Italy dated February 27 quotes 2s. 10½d. per lb. c.i.f. war risk extra. It is intimated that, owing to extreme difficulties in regard to the manufacture of tartaric and citric acids and cream of tartar, prices must advance still further.

TURPENTINE.—Sales remain of a restricted character to consumers only, the price to whom with a licence is 124s. per cwt. for American on the spot.

VANILLIN.—Demand is extremely quiet, and there are occasional second-hand sellers at 61s. to 62s. per lb.

WAX, VEGETABLE.—Sales of Japanese afloat have been made at 99s. per cwt. c.i.f., sellers of March-May quoting 100s. c.i.f. Spot sellers quote 105s.

Proposed British Chemical Trade Association.

A meeting of chemical importers and dealers was held at the Great Eastern Hotel, London, E.C., on March 6, to inaugurate an Association to look after and protect the interests of the chemical trade. Mr. W. Mann (Mann & Cook) was elected to the chair, and Mr. S. C. Mason (the Fabra Co., Ltd.), who was elected Secretary, gave an outline of what it was proposed to do. The three principal objects for which the Association is proposed is to have (1) a representative Association that can act authoritatively when dealing with Government and official bodies; (2) to deal with the regularisation of contracts, in regard to which much dissatisfaction exists; (3) to regularise arbitrations, upon which question there was also much ground for dissatisfaction. A provisional Committee of seven was elected, these comprising the firms of Horace Battin & Co., John Batt & Co. (London), Ltd., the Keene Co., F. W. Powell, Perry Mills & Co., Thornett & Fehr, and D. J. Truscott & Co. Necessary provisional rules were discussed and drawn up. It is understood that a general meeting of the trade will take place later on in order to confirm the decisions already arrived at. Members or representatives of the following firms were present, or had intimated that they were in sympathy with the objects of the Association: A. J. Barnett & Co., Horace Battin & Co., John Batt & Co. (London), Ltd., Biggs, Gwyer & Co., Fredk. Boehm, Ltd., Cooke, Tweedale & Lindsay, Ltd., F. C. Devon & Co., Fabra Co., Ltd., Fuerst Bros., Ltd., S. L. Flores, H. C. John, Keene Co., Mann & Cook, O. Murray & Co., Ltd., F. W. Powell, Perry Mills & Co., Thornett & Fehr, D. J. Truscott & Co., A. & M. Zimmermann, Ltd.

Arrivals of Chemicals, Drugs, etc.

The following arrivals have taken place at the ports of London and Liverpool:

To London		
(February 25 to March 1).		
Antimony ref., 7 tons; reg., 160 tons	pockets 25 cs.; vegetable dyes, 6 cs.	Argol, 260 bgs. 136 cks.
Bronze powder, 10 cs.	Fullers' earth, 2 tons	Coumarin, 1 cs. 2 bxs.
Casein, 2,600l.	Gelatin, 2,402l.	Cream of tartar, 1 ck. 1 cs.
Chemical products, unrated, 10 cs. 35 cks. 925 pkgs.	Gums (cwt.): acacia, 305; copal, 784; olibanum, 125; tragacanth, 1,022	Glycerin, 2 cs.
Argol, 177 bgs.	Lithopone, 128 brls.	Heliograph, 1 box
Arsenic, 280 cwt. 80 cs.	Loofahs, 350l.	Iodine, 545 kgs.
Bromides: potash 7 cs.	Nuts and kernels (cwt.): copra, 1,360; ground, 5,500; palm, 2,902	Lithia carb., 5 brls.
Camphor, 435 cs.	Oils, essential, 467 cs.	Phenacetin, 1 pt.-cs.
Carbon black, 100 cs.	2 cks. 2 cbs.; anise, star, 260 cs.; camphor, 85l.; synthetic, 24 cs. 4 cks.	Salicylic acid, 16 brls.
Cream of tartar, 20 brls. 9 cks. 60 pkgs.	Oils, fixed: unrated, 9,675l.; coconut, unref., 150 cs.; fish, 8,400 cs.; groundnut, 700 cs. 40 drms.; herring, 1,500 cs.; palm, 82 cks.; perilla, 250 cs.; whale, 414 drms.; tea-seed, 756 cs.; wood, 13,666l.	Dental goods, 1,746l.
Guaiacal carb., 1 cs.	Perfumery, unrated (mostly raw materials), 309l.; toilet-powder, 1,198l.	Drugs, unrated, 299l. 77 bls. 49 ggs. 79 cs. 8 bgs. 1 drm. 7 cks. 1 bx.
Milk sugar, 56 brls.	Platinum, 1,378l.; iridium, 800l.	Benzoin, 833l.
Phenolphthalein, 1 cs.	Pumice stone, 3 tons	Digitalis, 10 bls.
Potash iodide, 10 cs.	Seeds (bags): canary, 315; castor, 4,050; dill, 855; fennel, 565 bgs. 200 bdls.; lin, 2,425	Erozot, 41 bgs.
Saltpebre, 5,360 cwt.	Starches (cwt.), 194; dextrin, 1,700; farina, 10,153; potato starch, 14,449	Galls, 200 cs.
Dental goods, 2,032l.	Talc, 515l.	Ipecacuanha, 25 bls.
Drugs etc., unrated, 62l.	Tallow, 230 cwt.	Menthol, 5 cs.
Aloes, 30 cs.	Vanilla, 1 cs.	Sarsaparilla, 8 bls.
Anise, star, 596 cs.	Wax, paraffin, 3,270 cwt.	Scopolia-root, 4 bls.
Belladonna - root, 20 bgs.	Waxes, not described 487 cs.	Dye-stuffs, tanning materials, etc.: chestnut tanning ext., 292 cks.; logwood ext., 10 cks.; mimosa-bark, 1,161 bgs. quercitron-bark ext., 200 brls.; wattle-bark, 5,328 bgs.
Buchu, 4 bls.	Zinc oxide, 2,500 brls. 1,067 cks.	Fullers' earth, 28 bls.
Cantharides, 60 cs.		Medicines, 20l.
Cardamoms, 58 cs.	To Liverpool	Nuts and kernels (bags): ground, 231; palm, 18,609
Cassia, 352 cs.	(February 25 to March 2).	Oils, essential, unrated, 47 cs. 2 drms.
Digitalis, 2 bls. 66 bgs.		Oils, fixed: cod, 84 cks.; cod-liver, medicinal, 200 brls.; fish, 1,450 cs.; lin, 2 brls.; palm, 581 cks.; shark, 250 cs.
Dagga, 40 bgs.		Resin, 1,870 brls. 40 cks.
Galls, 3,097l.		Seeds: cotton, 800 tons
Helicore, 3 bgs.		Serums, 1 cs.
Henbane, 21 bls.		Starches, 7,303 bgs. 430 sks. and 12 tons; dextrin, 1,760 bgs.; farina, 1,290 bgs.
Insect-flowers, 87 bls.		Wax, bees', 79 blocks
Menthol, 55 cs.		Wax, paraffin, 855 bgs.
Nuxvomica, 336 bgs.		Wax, vegetable, 22 cks.
Rhubarb, 10 cs.		
Scopolia-root, 52 bgs.		
Squill, 103 bgs.		
Tuba-roots, 180 bls.		
Dye-stuffs, tanning materials, etc., 1 cs.: cutch, 550 bxs. 1,274 cs.; gambier, 536 cs.; indigo, 44 cs. 25 cts.; logwood, 63 pkgs.; myrabolans, 4,601 pkgs. 20,960		



Letters for this section should be written on one side of the paper only. The writer may adopt an assumed name for purposes of publication, but he must in all cases furnish his real name and address to the Editor.

Business-training Lectures.

SIR,—The remarks of "Xrayser II." (*C. & D.*, March 2, p. 41) on my paper before the Progressive Pharmacy Club were evidently founded on the *résumé* which was printed in the *C. & D.* (February 23, p. 43). In the paper I distinctly expressed the common feeling that the ideal place for giving a training in business knowledge is the pharmacy, and the ideal teacher the chief pharmacist, and that no lectures could possibly take the place of such training. There are, however, numbers of chemists who lack definite knowledge on which to base such instruction, with all the desire in the world to do so, and there may even be some who would not do it if they could. I referred particularly to such subjects as "Percentage of profit required on different classes of articles" and "Relationship between capital and turnover" as being suitable for the seniors, while such subjects as "Window-dressing" and "Why profits are necessary" are suitable for juniors. With regard to the further suggestion of "Xrayser II." that an institution not necessarily interested in pharmacy should incorporate in its schedule such teaching, that seems for the present too much in the nature of a pious hope; and would such be more "practical" than the course proposed at the "P.P.C."? An outside "course" would lack the definite flavour of self-help—i.e., the need realised and supplied by members of our own craft. Might not the present humble effort prove the germ of a British College of Pharmacy (in reality) in which classes of all kinds, including post-graduate, would be available for such as cared to attend?

Yours sincerely,

Clapham, S.W.

M. E. BUCHANAN.

Reforming the Society.

SIR,—Your leaders on this subject will be read with interest, even by those who are unable to see eye to eye with you. The chief thing is to ventilate ideas, to afford facilities for the expression of all shades of opinion upon this important matter. Nothing could well be worse for the Society in the long run, even if gratifying to the complacency of the Council for the time being, than a burking of discussion or a conservative lassitude resting upon a false foundation of illusory optimism. Hence your criticisms upon the Society will probably redound to the latter's benefit no less than does a keen wind on the mountains to the well-being of the town's dweller. So much for generalities. The particular proposal I wish to add to yours is the adoption of the principle of proportional representation to Council elections. In this way only could a body truly representative be returned. It is a plan which would work equally well under the present system, in which English pharmacy forms one large many-membered constituency, and under any new system of territorial representation which it is almost certain will be inaugurated. The time is close at hand when proportional representation will, to some extent at least, be put into effect at our own Parliamentary elections. The system has only one drawback: it is not easy to grasp by the man in the street. But this is not a drawback so far as pharmacists are concerned, for, being men of higher than average education, the principle of proportional representation will for them be a thing plain, straightforward, and simple.

Yours truly,

VIGIL. (16/13.)

Duplicate Letters.

SIR,—During the war most firms send duplicate copies of the letters they write to foreign countries some days after the originals have been posted, with the object of ensuring that their orders shall reach their destination. Very often, however, it happens that they omit to indicate on those copies from whom the letter comes, so that on arrival the receiver does not know from whom the copy comes, especially in those cases when the original letter has been lost. This is very annoying, and we suggest that it would be advisable to give the name of the sender on all copies as well as the letters.

Yours faithfully,

SOCIETEIT VOOR CHEMISCHE INDUSTRIE "KATWIJK."
Katwyk aan Zee (Holland).

Lard-free Ointment-bases.

SIR,—Since your article appeared (*C. & D.*, February 9, p. 42) on ointment-bases free from edible fats, I have been experimenting on the lines there mentioned. I find the following base cheap and efficacious:

Ol. petrolei alb. ... 3xxvj.

Ceræ alb. (for cold-cream)

vel

Ceræ japonicæ (for most oint-

ments) ... 3iv.

Paraff. dur. ... 3iv.

Melt together and place in a hot jar. Then dissolve

Pulv. boracis ... 3ss.

in

Aq. bullientis ... 3xij.

and mix, stirring occasionally until the mass is cold. For cold-cream perfume is added just before the base sets. I find this answers for most of the ointments of the British Pharmacopœia where lard is indicated.—Yours faithfully,
Clacton-on-Sea. J. W. PRIVETT.

"Plural Voting."

SIR,—I was pained to read the comment of "Xrayser II." this week on the accession to the Society of a large number of qualified assistants in the employ of Boots, Ltd. To me the objectionable remark is, "Do they propose to use all this voting-power in their own interests?" Does "Xrayser II." imagine that, generally speaking, Sir Jesse Boot has bought us body and soul, or that, in this particular instance, he can sway our consciences or influence our votes by an individual payment of twenty-one shillings—even Judas was given thirty pieces—or does "Xrayser II." assume that chemists as a class are such poor clay that they will do anything they are told by a person having an evanescent authority over them? I might say that Sir Jesse Boot's circular sent out at the time membership was mooted showed, especially for an outsider, a fine spirit of loyalty to the Pharmaceutical Society.

Yours truly,

NOT AN ISCAriot. (19/12.)

N.H.I. Matters.

SIR,—Is it ever suggested to the doctors that they should write plainly and distinctly and sign their names so that any experienced person can decipher them? Also that duplicate Insurance prescription-forms are furnished to them in order that a duplicate may be brought into being? Quite 50 per cent. of my duplicates are undecipherable. I see a new rule that "poison-bottles" are to be charged for—on the deposit system. This means more dirty bottles. Is there no one on these local Committees to express the dislike of dispensers to dirty and greasy containers? Then the waste of paper. I suppose there is a shortage, but who would believe it seeing the profligate wastage in Government offices? The circulars, letters, and prices current that reach me are all duplicated, and sometimes triplicated, and the cream of the thing is that we do not in this district do any pricing at all.

Yours, etc.,

DISGRUNTLED. (241/57.)

Women in Pharmacy.

SIR,—In an interesting article in the *C. & D.*, January 5, p. 39, those who have not already done so are advised to take steps at once to engage and train young ladies in the routine work of the pharmacy. Some time ago someone suggested (or was it an official scheme?) that young childless war-widows of officers should be induced to take up the profession of pharmacy, and that the Government should encourage this and give an honorarium to those chemists who would be willing to have such for the period of apprenticeship. If this scheme has not yet received the official blessing of the Pharmaceutical Society and Government Departments concerned, the time is now ripe for this to be inaugurated, and so relieve the labour difficulty, and at the same time be a means of setting free more young men. An allowance for board and an honorarium might induce many country pharmacists to assist in such a scheme. As one having had experience of women pharmacists for over a quarter of a century, some of whom have qualified, and others are well on the road to do so, I can with every assurance recommend strongly my brother pharmacists to give them a trial. They are much more painstaking, obliging, natty, and self-reliant than the average male; while clients of all classes never demur to being served by them, but rather the reverse, and seem to feel quite at home in telling them their tale of woe, and they make sympathetic listeners. At the outset the Preliminary examination or equivalent should be insisted upon, after which they take an intelligent interest in all their surroundings, and should have no difficulty at the expiry of three years in presenting themselves for the Qualifying examination of the Pharmaceutical Society after a short course at one of the many excellent schools of pharmacy.

SCOTTISH CHEMIST. (91/19.)

Dispensing Difficulties and Notes.

A Cloudy Mixture.

SIR,—I should be much obliged if you would let me know if a clear mixture can be made of the following:

Caffein. citrat. gr. xij.
Phenazoni,
Sod. salicylat. aa. 5j
Aq. chlorof. ad 3vj.

Yours faithfully,
H. V. D. (14/14.)

[A clear mixture cannot be made from the prescription when compounded as written. The caffeine citrate in presence of water is split into its component parts, caffeine and citric acid; the caffeine enters into a soluble combination with the sodium salicylate, while the free citric acid liberates salicylic acid from part of the sodium salicylate. The liberated salicylic acid, being in excess of what will dissolve in the liquid, remains suspended in it as a snow-flake precipitate. If the mixture be desired clear one of two methods can be followed—that is, an equivalent of caffeine alkaloid (6 grains) may be used instead of the caffeine citrate, or the mixture may be neutralised, or better rendered slightly alkaline, by liquid ammonia. To the latter procedure we give preference, as it retains the citrate.]

Legal Queries.

Most difficulties in trade law are explained in the legal section of "The Chemist and Druggist Diary," 1917, beginning on page 353.

Badge (13/56). served in the Army overseas in the South African war, being invalided home and discharged. He was recently "called up" under the Military Service Acts; but, in the circumstances, he was held to be exempt from liability to serve in the Army, and he has since attained the age of forty-one. Is he entitled to a silver badge, and if so, how should he proceed in order to obtain one? [We believe that the silver badge is only awarded to men who have served with the Forces during the present war. Application for the badge must be made to the Officer in Charge of Records of the regiment in which the applicant served.]

Nemo (14/18) has taken a house on a fourteen years' lease at a rent of 40*l.* He has been charged 7*s.* 6*d.* by the landlord's solicitor for "half stamps." Is this charge correct? "Nemo" also asks whether a wholesale firm is obliged to allow for packing-cases charged for if the cases are returned in good condition. [The stamp-duty on the lease is 10*s.* and on the counterpart 5*s.*, hence the charge of 7*s.* 6*d.* for "half stamps" is correct. In our opinion, if a wholesale firm makes a charge for the case in which goods are supplied the firm is bound to refund or allow the amount of the charge if the case is returned to the firm in as good condition as it was sent out, subject to any special agreement or trade custom to the contrary.]

E. S. F. (19/43), who is resident dispenser to an institution, occupies apartments which are a part of the main building. The governing body provide a woman to clean and put fires in the rooms used as a dispensary on four days of the week, leaving our correspondent to provide for this work on the remaining three days. He has to keep a domestic servant, who does the work as well as attends to the cleaning of that portion of the building which our correspondent uses as his private apartments. These apartments and the dispensary form so large a portion of the building that the services of some domestic are required for cleaning them, so that the dispenser may be able to give his whole time to the work of his office. He has claimed to be entitled to make a deduction of 20*l.* a year from his assessment to income-tax, as representing the proportionate cost to him of the servant employed to do the cleaning, but the local surveyor refuses to allow it. He wishes to know if he has any, and, if so, what, remedy. [It is not stated, but we assume that our correspondent is a salaried official of the institution, and is assessed to income-tax under Schedule E. In that case, in order to be entitled to the allowance claimed, he would have to show that the 20*l.* was money expended wholly, exclusively, and necessarily in the performance of the duties of his employment. The proper way to do this would be by appealing to the District Commissioners of Taxes within the period given on the notice of assessment (twenty-one days). The question would be one of fact for them to decide. If, as we think likely, the time for appealing has expired, our correspondent might get some relief by writing stating the facts to the Secretary, Stamps and Taxes, Somerset House, but he cannot claim it as a strict legal right.]

Miscellaneous Inquiries.

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

L. D. B. (93/62).—We are unable to refer you to any special treatise on the bacteria causing enteritis.

W. R. (56/33) and H. E. H. (128/41).—You will find Hale White's "Materia Medica, Pharmacy, Pharmacology, and Therapeutics" a trustworthy book on the action and uses of drugs. It is published by Churchill at 7*s.* 6*d.*

Amateur (131/74).—PHOTOGRAPHIC PAPER.—Degradation of the whites of photographic printing-out paper and bromide-paper may be due to several causes. Sometimes the negatives are of such a character that plucky prints cannot be obtained. The formulæ given by the makers of the papers should be followed closely, and although the papers you refer to are not highly sensitive, you should guard against the admission of too much white light in the pre-fixation stage.

J. M. (164/30).—ABSORBING CHLORINE.—While making the chlorine solution you should wear a respirator or gas-mask the pad of which is moist with the following solution:

Sodium hyposulphite 1 lb.
Sodium carbonate 1 oz.
Water 4 pints

Dissolve.

This is the solution which was found effectual in neutralising the poison-gas (at one time mainly chlorine) which the Germans regard as a "scientific" method of warfare.

Quintus (12/19).—(1) SAFROL is more effectual as a parasiticide than sassafras oil. (2) FLOWERS OF CAMPHOR is official in the British Pharmacopœia, and is the preferable form of camphor to employ in all pharmaceutical preparations. (3) SALE OF LAUDANUM.—Your third question, "Is it wise to use or sell tinctures with British Pharmacopœia names contrary to B.P. standard?" is not so easy to answer. The example you give of the sale of laudanum with the label, "Laudanum—Poison, old strength, B.P., 1898," shows that the retailer has made the sale deliberately. It is quite legal to sell the preparation of the B.P. 1898, provided the purchaser is not deceived. Probably the life of the purchaser would be endangered by selling the stronger tincture, and on this account the sale shows wisdom. You should beware of making a fetish of the B.P., and remember that although it is a standard for the dispensing of physicians' prescriptions, the amount of drugs sold retail is probably much greater. If anything, the public has a great cause for complaint against the constant tinkering that goes on in the strengths of preparations in the British Pharmacopœia.

J. G. N. (12/24).—TRIKRESOL-FORMALIN.—This liquid used as an antiseptic was stated by the makers to be a natural mixture of the three isomeric cresols, and had a sp. gr. 1.045. Trikresol should be soluble 1 in 40 of water. The difficulty is to obtain the cresols at the present time, but if the sample conforms to the boiling-point (185°-205° C.) required, we think the solubility difficulty which you experience will be overcome. To make trikresol-formalin 1 part of formalin is mixed with 4 parts of trikresol.

J. J. (14/29).—COLOUR OF FLOWERS.—There was an article on the colouring-matter of flowers in THE CHEMIST AND DRUGGIST, December 11, 1915, p. 51. The addition of chemical substances, such as iron salts, to the soil influences the colours, but we are not able at the moment to refer you to a record of experiments in this direction.

W. W. (13/40).—We cannot undertake to identify the samples of oil which you send.

Retrospect of Fifty Years Ago.

Reprinted from "The Chemist and Druggist," March 14, 1868.

Doctors' Latin.

The following classical invitation to a medical meeting was recently issued at New York: "Doctores! Ducum nex mundi nitu Panes: tritucum at ait. Expectu meta fumen tu te & eta beta pi. Super attento uno Dux, hamor clam pati; sum parates, homine, ices, jam, etc." No Sideror Hoc. 'Festo resonan floas sole.' Nov. Ebor. Jan. 20."

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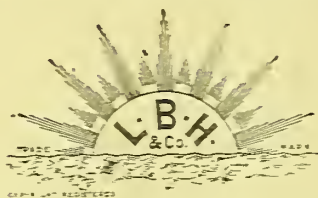
will still be as heavily advertised in the lay press, and window displays will be sent out from time to time, while to those of our friends who give these exhibitions we shall supply the 6 doz. orders on the basis of the same generous terms. In effect, we have made the advertised price and face value the P.A.T.A. minimum.

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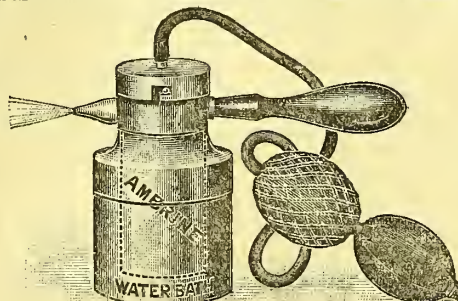
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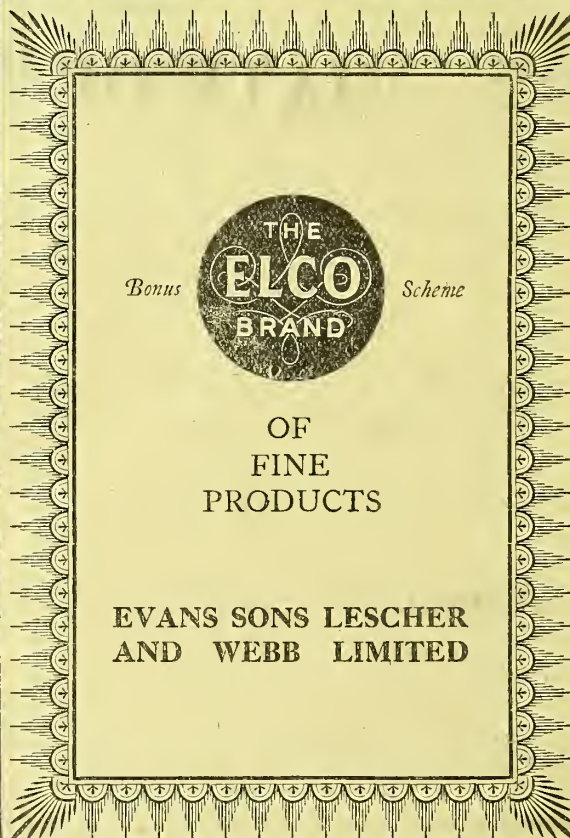
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 *Tinct. Opii, B.P., 5 lbs. @ 9/9 lb.
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 *Tinct. Quinina Amm., B.P., 5 lbs. @ 4/3 lb.
 *Tinct. Rhei Co. B.P., 5 lbs. @ 2/10 lb.; Aquos, 1/4 lb.
 *Tinct. Scillæ, P.B., 5 lbs. @ 3/4 lb.; Aquos, 1/2 lb.
 *Tinct. Senegæ, P.B., 5 lbs. @ 4/- lb.; Aquos, 1/10 lb.
 *Tinct. Strophanth., P.B., 5 lbs. @ 5/- lb.
 *Tinct. Valerianæ, 5 lbs. @ 4/6 lb.; Aquos, 1/10 lb.
 *Tinct. Valerianæ Ammon., P.B., 5 lbs. @ 4/9 lb.; Aquos, 1/10 lb.
 *Tinct. Zingib., P.B., 5 lbs. @ 5/3 lb.
 *Tinct. Zingib. Fortior., 5 lbs. @ 5/10 lb.
 Treacle (Black), 12 lbs. @ 7½ lb.
 Turpentine (Best American), 1 gal. tins @ 10/6 each; Venice, Genuine, 9 lbs. @ 1 lb.
- U**ng. Acid. Boric, P.B., 28 lbs. @ 1/2½ lb.; Flav., 28 lbs. @ 10d. lb.
 „ Acid. Carbol., B.P., 28 lbs. @ 1/5 lb.; 7 lbs. @ 1/6 lb.; 1 lb. @ 1/9 lb.
 „ Gallæ, P.B., 7 lbs. @ 1 lb.; 1 lb. @ 1 lb.; c. Opio, 7 lbs. @ 1 lb.
 „ Hydrargyri, B.P., 28 lbs. @ 4/- lb.; 7 lbs. @ 4/2 lb.
 „ Hydrarg. Ammon., B.P., 28 lbs. @ 1 lb.; 7 lbs. @ 1 lb.
 „ Hyd. Nit. Dil., 7 lbs. @ 1/11 lb.
 „ Paraff. Alb., P.B., 28 lbs. @ 1/2 lb.; 7 lbs. @ 1/3 lb.; 1 lb. @ 1/5 lb.; Flav. 28 lbs. @ 10d. lb.; 7 lbs. @ 1/- lb.
 „ Resinæ, P.B., 28 lbs. @ 1 lb.; 7 lbs. @ 1 lb.
 „ Sulphuris, B.P., 28 lbs. @ 1 lb.; 7 lbs. @ 1 lb.
 „ Zinci Oxid. Benz., B.P., 28 lbs. @ 1 lb.
- W**ax, Japan, 2 cwt. @ 112/6 cwt.; 7 lbs. @ 1/2 lb.
- Z**inci Oleat, Powder, B.P.C., 7 lbs. @ 3/- lb.
 Zinci Oxid., 1 cwt. @ 106/- cwt.; 28 lbs. @ 1/- lb.; 7 lbs. @ 1/1 lb.
 „ Sulph., pure, 1 cwt. @ 50/- cwt.; 28 lbs. @ 6½ lb.
 „ Sulphocarbolas, B.P., 7 lbs. @ 4/1 lb.; 1 lb. @ 4/4 lb.

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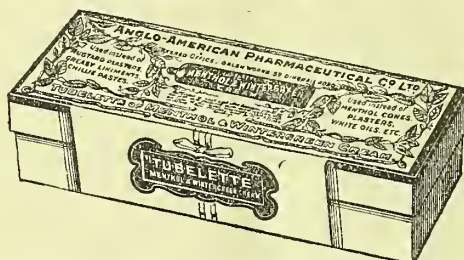
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LI
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r H.G. Grantham (representative in Ireland and the West
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appointed Officer Commanding Motor Ambulances
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Lieut.-General Sir H.G. Chauvel, K.C.M.G., C.B.

Index*

ADVICE OF BUSINESS CHANGE

Index No.

FF 18

~~A.D. (Showcase Clerk)~~

~~Estates Dept.~~

A.D. Records Section

re.....

Dr. Geoffrey Cross

Please note

add.

Here Hospital, East London, C. P., S. Africa.

Information taken from.....

S.A. Nursing Record. June 1915

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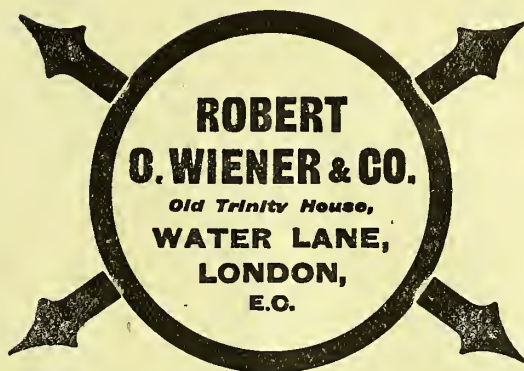
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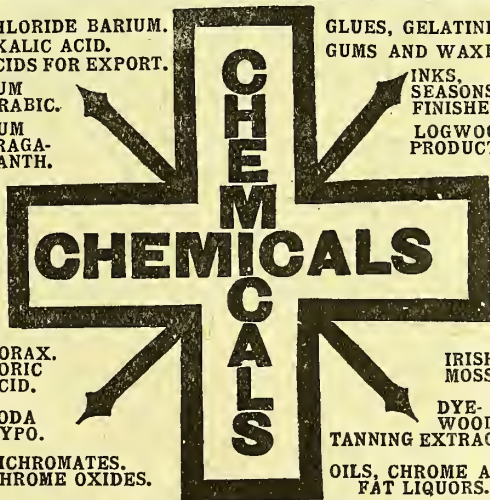
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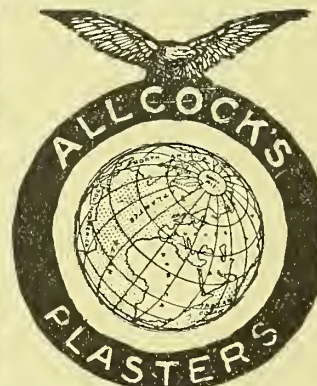
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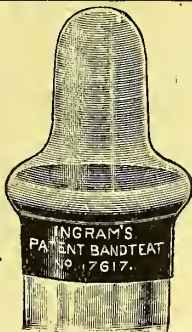
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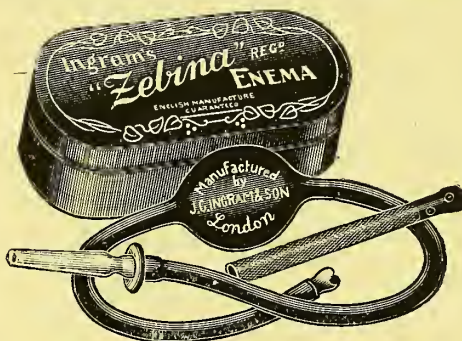
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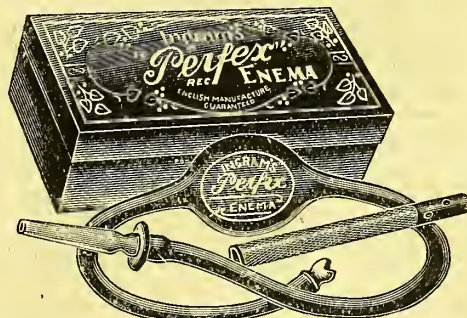
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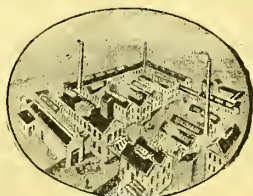
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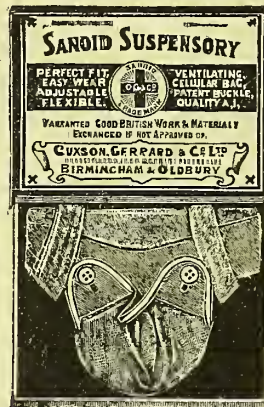
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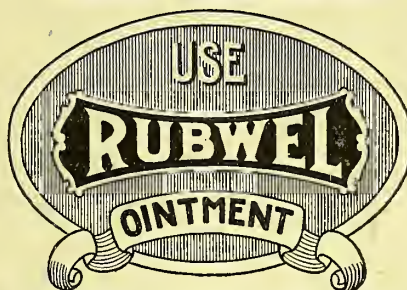
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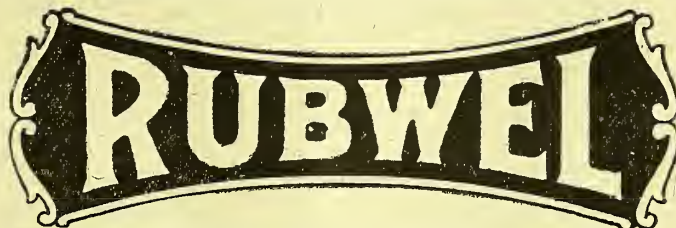
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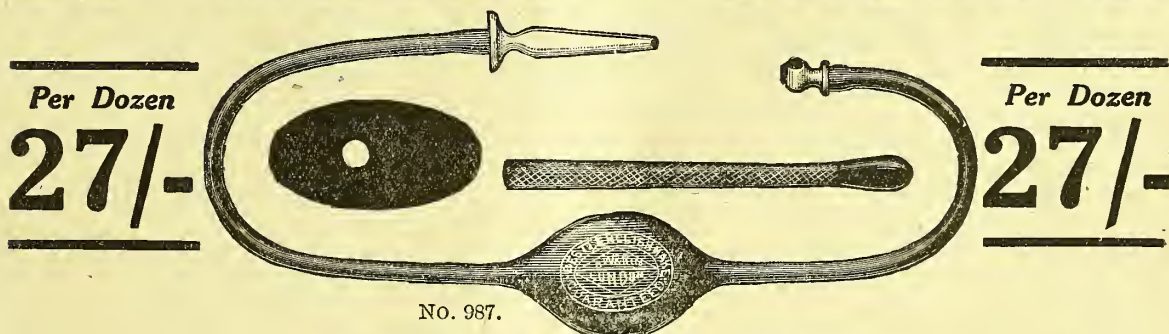
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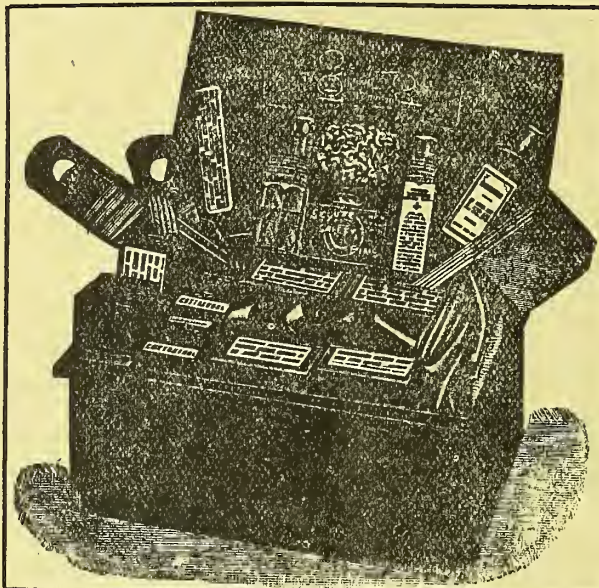
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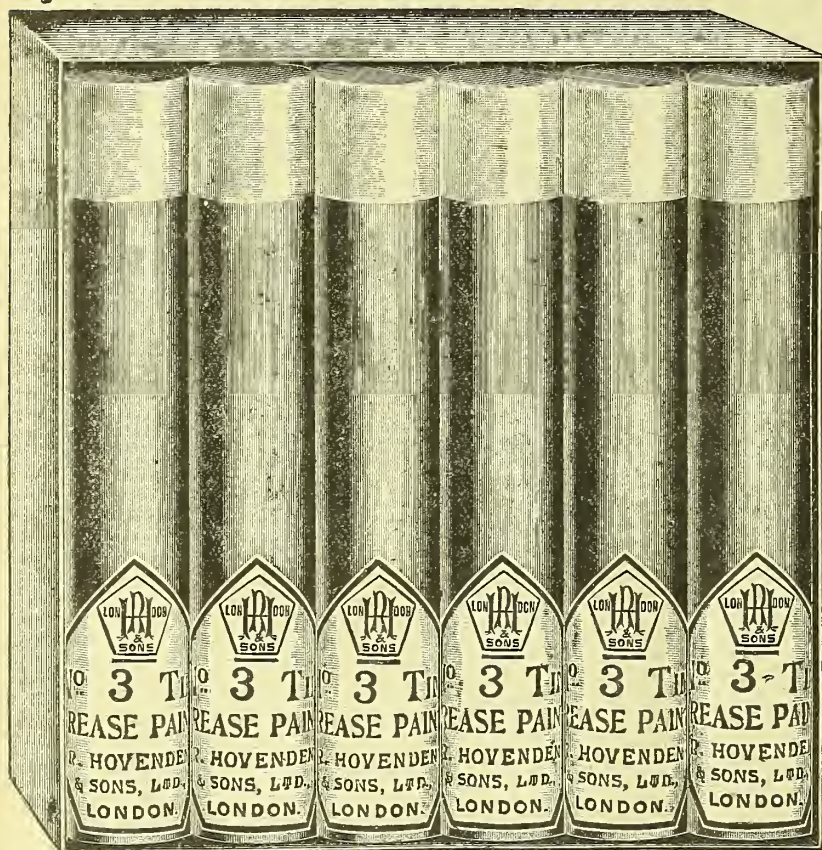
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FOR Sale, complete Fittings for small Pharmacy, including Drug Fixture, with mirror back and centre mirror, and nest of drawers, with lockers and two cupboards; Mahogany-topped Counter with eight drawers; Dispensing Counter with two small cases, mirror-lined, and small Sponge Case, Wall Cases, and two small mirror-lined Counter Cases; all finished mahogany; in use for five years only. J. E. Henshaw, 23 Wyle Cop, Shrewsbury.

GELATINE.—About a ton of Gelatine for disposal; has been used for moulding plaster casts only; what offers? Sample sent on application to Keyser, 26 Derby Grove, Lenton Sands, Nottingham.

WHAT Offers?—5' gross 1½d. tins Niobe Metal Polish, 12s. gross; 4 lb. Ergota; 1 lb. each Gran. Parad. and Rad. Alkanet; 2 lb. Potas. Sulphas pur.; ½ lb. Gum. Sang. Dracon.; ½ lb. Cusso; 2 oz. each Guaiacol Liq. (slightly discoloured), Ol. Ligni Cedri, Lithia Carb. et Cit., Podoph. Resin.; 6 oz. Ol. Cubebs; 1 oz. each Caffeine Cit., Castoreum and Moschus (artif.) (Baur); ½ oz. Guaiacol Camph. B.W.'s; 4 oz. Tr. Calendulæ. Apply 47/18, Office of this Paper.

1 CWT. keg Mag. Sulph., B.P., 25s.; 50 oz. Quin. Sulph. at 3s. 6d.; 14 lb. Ol. Ment. Pip. Wayne County, at 14s.; 28 lb. Ol. Eucalypt. (70/75% Eucalyptol), B.P., Opt., 3s.; 4 lb. Pot. Brom. at 8s. 6d. lb.; ½ doz. 7s. 6d. Saphos at 5s. 3d.; 5 cwt. Pdr. Chiretta at 39s.; 2½ doz. Japanese Air Pillows at 11s. W. Lean, Ph.C., 22 High Street, Burton-on-Trent.

LEGAL.

ALL persons having claims against the estate of the late A. W. Abram, Chemist, of Aire Street, Goole, are requested to send particulars of same to Mrs. Abram at the above address.

AGENCIES.

Price-lists, trade circulars, samples, and printed matter can be forwarded, the Box numbers being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

EGYPT.—French Representative established in Egypt since 1910, having wide experience and a first-class connection among Chemists and Druggists, is prepared to represent English Manufacturing Chemists and Druggists and makers of Pharmaceutical and Toilet Specialties; high-class references to English and French Houses for which agencies in force. Reply to P.O. Box 1505, Cairo, Egypt.

BRITISH FIRMS desiring representation in Australia are invited to communicate with "Austral" (254/74), c/o "C. & D." 42 Cannon Street, London, E.C. 4, who have exceptional facilities for handling all lines, including Drugs, Chemicals, Brushware, Household and Toilet Requisites, Druggists' Sundries, Pharmaceutical Machinery, and everything of interest to Retail Pharmacists.

SITUATIONS OPEN.

3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid.

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 6d.

Price-lists, trade circulars, samples, and printed matter can be forwarded, the Box numbers being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

RETAIL.

BATH.—Lady Assistant, accustomed to Retail and Dispensing; hours 9 to 6, two later evenings weekly, with compensating allowance during day. Please send full particulars of experience, 57/39, Office of this Paper.

BEACONSFIELD.—An Assistant wanted; one experienced in best-style Dispensing business, chiefly for Front Counter and Clerical work; outdoors. Apply, stating salary required, to Mr. Brooke, Chemist.

BIRMINGHAM.—Qualified or unqualified Assistant, whole or part time, for highest-class Dispensing business. State salary required, 57/2, Office of this Paper.

BIRMINGHAM.—Young lady Assistant required; must be a good Dispenser, and have had Counter experience; permanency, with progressive salary. "B. S." (57/14), Office of this Paper.

BRADFORD AND DISTRICT PHARMACISTS' ASSOCIATION.—Wanted, for the months of June to September inclusive, a Pharmacist, to take holiday duty for members of the above Association. Apply, with full particulars as to salary required, references, etc., to Frank E. Burdett, Hon. Secretary, 10 Rose Mount, Bolton, Bradford.

BURTON-ON-TRENT.—Assistant (outdoors) wanted at once; male or female. Apply Wright & Son, High Street, Burton-on-Trent.

DEVONSHIRE COAST.—One of the plums of the Drug Trade.—Wanted for a live Agricultural and Family trade, a really live capable man with ambition; used to a turnover of not less than £100 weekly; exceptional quick pushing Counterman; salary commencing £250 first year, but if really alive will soon take him into partnership; I have the business and capital, but wish to retire shortly; if you are not really alive don't reply; my average turnover exceeds £200 weekly; Lincolnshire man preferred; permanency guaranteed, and free removal expenses; personal interview, with expenses paid; ineligible or discharged. References, experience, and full particulars to "Delta" (45/21), Office of this Paper.

EALING, W. 5.—Wanted, a gentlemanly, capable Managing Assistant, accustomed to a high-class Dispensing business; ineligible for Army; outdoors; hours of business 8.30 to 7; no N.H.I.; others kept. Apply, giving full particulars, to Mr. Lewis, Chemist.

EASTERN COUNTIES.—Wanted, lady Assistant with good experience; accustomed to quick Counter trade; also Photographic and Window-dressing experience preferred. Apply, stating salary (outdoors), age, height, and references, enclosing photo (to be returned), 58/6, Office of this Paper.

EAST SUFFOLK AND IPSWICH HOSPITAL.—Wanted, qualified Pharmacist; lady or gentleman; salary £180. Apply Arthur Griffiths, Secretary, The Hospital, Ipswich.

GLOUCESTER.—Assistant required (male or female); outdoors; good-class Dispensing and Light Retail. State full particulars, with salary, to Ward & Woodman, Gloucester.

LANCASHIRE.—Young lady, with a little experience of Counter work and Dispensing, required for Light Retail and Dispensing business; comfortable berth; progressive salary. "Lancs" (55/344), Office of this Paper.

LEICESTER.—Lady Dispenser required; Hall qualification. Please state full particulars as to salary required, experience, and reference to the Manager, Public Medical Service, East Bond Street, Leicester.

LONDON (near).—Chemist, having a high-class business, requires capable young lady Assistant; must be a good Dispenser; permanency. "H. S." (55/34), Office of this Paper.

LONDON (Central).—Lady Assistant, mainly for Dispensing; outdoors; some knowledge of French an advantage; previous experience in a Pharmacy essential. Full particulars to 55/10, Office of this Paper.

LONDON (Central); outdoors.—Junior for Dispensing and Counter; several Assistants kept; easy hours. Frizell & Co., Leicester Square, W.C. 2.

LONDON, E.—Qualified Manager, above military age, for working-class business, with good N.H.I. connection; liberal interest in the profits offered. "A. B." (55/341), Office of this Paper.

LONDON, N.E.—Wanted, young lady, with some experience preferred, to put up Stock and help at Counter; a smart girl with Wholesale experience would do. Apply Grant's Drug Stores, 33 Chatsworth Road, Clapton Park, E. 5.

LONDON, N.W.—Wanted (at once), capable Assistant (male); unqualified; quick and reliable Dispenser; ineligible for Army. Apply, with full particulars, salary required, etc., to W. R. Ames, High Street, St. John's Wood.

LONDON, S.E.—Trustworthy and reliable, qualified or unqualified, Assistant required, ineligible or over military age, for permanency. Apply Beale & Son, 3 High Street, South Norwood, S.E. 25 (Phone: Croydon 310).

LONDON, S.W.—Unqualified male Assistant required for high-class business; must be a good Dispenser; permanency, with progressive salary. "S. S." (55/342), Office of this Paper.

LONDON, S.W.—Wanted (at once), Assistant; lady or gentleman; unqualified or Hall. Full particulars, with salary required (outdoors), to S. S., 436 High Road, Streatham, S.W. 16.

LONDON, S.W.—Assistant wanted, male, outdoors, with good general knowledge; accurate Dispenser; N.H.I.; close 1 o'clock Wednesdays. Apply James Lloyd, 125 St. John's Hill, Clapham Junction.

LONDON, S.W.—Lady Assistant required; good handwriting. Apply A. J. Phillips, 156 Cromwell Road, S. Kensington.

LONDON, W.—Assistant, with Counter experience, end of March; short hours; permanent post for suitable man; three Assistants kept. Full particulars to E. F. Strickland, 28 The Broadway, Ealing, W. 5.

MANCHESTER SUBURB.—Required, unqualified Assistant of good Counter experience and good character; if male, must be ex-Army or ineligible. Full particulars to Kemp, Chorlton-cum-Hardy.

MIDLANDS (not far from Birmingham).—Young lady Assistant required; must have had good Counter experience and be able to Dispense; comfortable and progressive berth. "P. S." (55/343), Office of this Paper.

NORTH LONSDALE HOSPITAL, BARROW-IN-FURNESS.—Wanted (immediately), for the duration of the war, qualified Dispenser and Bookkeeper (either sex; males to be ineligible for active service). Applications, stating age, qualifications and salary required, and accompanied by copies of two recent testimonials, to be sent to the Secretary.

RUGBY.—Junior Assistant (male or female) for Light Retail and Dispensing, with experience; good references. Chamberlain, 3 Market Place, Rugby.

SOUTH LONDON HOSPITAL FOR WOMEN.—Senior Dispenser required for charge of in-patients' and out-patients' Dispensaries. Applications, stating age, qualifications, experience, and salary required (lunch and tea provided), to be forwarded at once to the Secretary at the Hospital, South Side, Clapham Common, S.W.

SOUTH OF ENGLAND.—Assistant required (male or female); free removal; permanency with good salary. Timothy White Co., Ltd., Chemists, Portsmouth.

SOUTH WALES (within 10 miles of Bridgend).—Qualified Manager (Welshman preferred) for business situated in a colliery district; must be a good Prescriber, and bear unimpeachable character; permanency, with a liberal interest in the profits offered to the right man. "S. W." (55/346), Office of this Paper.

STOCKPORT.—Wanted, a qualified Assistant (outdoors) for Light Retail and Dispensing; short hours, no Sunday duty, half-day Thursday; permanency. Apply, with full particulars, to J. West Lang, Pharmaceutical Chemist, Teviot Dale.

WEST RIDING.—Qualified Manager wanted; comfortable post; no Sunday duty; good salary and competent help. Apply 59/32, Office of this Paper.

WORCESTER.—Wanted (immediately), lady Assistant, more especially for Dispensing, with good opportunity to acquire Counter experience; permanency. Apply, stating experience, references, and salary required (outdoors), enclosing photo if convenient, Horniblow & Son, Chemists, 29 Sidbury, Worcester.

WORCESTER.—Qualified Assistant for Dispensing Counter (lady or gentleman); easy hours, no Sunday duty. Please state full particulars, salary (outdoors), to E. J. Kitson, City Drug Stores, Worcester.

YORK COUNTY HOSPITAL.—Dispenser wanted; Minor qualifications. Applications, stating age, experience, and salary required, together with copies of three recent testimonials, to be sent to the undersigned at once, Fredk. Neden, Secretary and Manager.

10 CHESTER PLACE, HYDE PARK SQUARE, LONDON, W. 2.—Wanted, a lady Assistant, capable to Dispense in high-class business; hours 9 to 6. Maitland, Son & Lindley.

A QUALIFIED gentleman required for one day weekly; light Retail and Dispensing; a lady Dispenser kept. R. B. Betty, 1 Park Street, Gloucester Gate, London, N.W.

A QUALIFIED Assistant required for country business; easy hours and light duties; suitable for one partially disabled, or seeking semi-retirement. Full particulars, Shearman, 17 High Street, Haverhill, Suffolk.

A N energetic, unqualified man required (immediately); must be a capable and experienced Dispenser, and either rejected or over military age; comfortable, permanent berth, with progressive salary. Apply Manager, The Sloane Pharmacy, Sloane Square, London, S.W. 3.

A N Assistant Chemist (woman, or man ineligible for military service) is required in the Laboratories of a Public Institution in London; commencing salary £150 per annum. Write, stating age, qualifications, and experience, to "I. K.," c/o Street's, 30 Cornhill, E.C. 3.

A SSISTANT (ineligible) for Counter, and to put up stock in a quick suburban business; short hours; weekly half-holiday, no Sunday duty. Terms and references to Gill, Pharmacist and Optician, Radford Road, Nottingham.

ASSISTANT for mixed country business; qualification not essential; knowledge of Photography preferred; outdoors; easy hours, no duty. State salary required, Randall & Son, Wareham.

ASSISTANT wanted, capable, for Dispensing and Counter; outdoors; comfortable berth. Fromow, 16 Wood Street, Walthamstow, E. 17.

ASSISTANT wanted; ineligible or lady; good at Counter and Window-dressing. Apply, stating age, height, salary (outdoors), enclosing photo, to be returned, Symonds, Photographic Chemist, Ipswich.

ASSISTANT wanted for Dispensing and Counter; ineligible for Army. State salary, S. P. Sayers, 7 Brent Street, Hendon, N.W. 4.

DISPENSER; lady or gentleman; chiefly N.H.I. work, in N.W. district. Apply, giving particulars of previous experience, salary required, etc., to 55/15, Office of this Paper.

FOR nice Light Retail and Photographic; no heavy trade; Midlands; unqualified; ineligible; pleasant, good-sized country town; permanency. Apply 55/36, Office of this Paper.

JUNIOR Assistant (lady) for quick Cash Retail; good wages; moderate hours; knowledge of Dispensing an advantage, though not essential. Chae. Thompson & Sons, Chemists, 159 Stratford Road, Sparkbrook, Birmingham.

JUNIOR Assistant or Improver; ineligible. State age, salary required (outdoors), and give references with your application, to S. Cook, Chemist, 76 Radford Road, Nottingham.

LADY Assistant; permanency; hours 9-6.30, 1 o'clock Saturdays. Apply S. F. Goss, Ltd., 460 Oxford Street, W. 1.

LADY Assistant, Apothecaries' Hall qualification, for Dispensing, Stock, etc. Apply by letter, stating age, experience, and salary required, to F. H. Hall, M.P.S., 13 Clifton Road, Maida Vale, W. 9.

LADY Assistant; qualified preferred; some Counter experience, but not necessary; attractive personality; live in; view partnership if suitable; capital not necessary. Reply, usual particulars, and full length photo (to be returned), to "Lanes" (54/13), Office of this Paper.

LADY Dispenser and Bookkeeper wanted for Light Retail business. Apply, giving full particulars, to Middleton & Co., Station Street, Saltburn-by-the-Sea, Yorks.

LADY Assistant for Dispensing, Bookkeeping, and Stock; preference given to one trained by Chemist; comfortable and progressive position for one wishing to gain experience and not afraid of work. Give full particulars of experience, send photo if possible, and state age, when free, and salary expected, Stead, Duke Street, Brighton.

LADY Dispenser (outdoors) required at once. Reply, giving particulars as to previous experience, salary required, etc., to W. Gowen Cross & Son, 70 Mardol, Shrewsbury.

LOCUM wanted (early in April) for good-class business; must be active and used to quick Counter work. T. H. Foden, Pharmacist, King's Heath, Birmingham.

MANAGER for small good-class Pharmacy in suburbs; comfortable permanency for reliable man. State salary required and references, "G. F." (51/10), Office of this Paper.

MANAGER wanted for Branch; ineligible; good-class business; good prospects for reliable man. Full particulars in first letter, T. A. Harrison, Pharmaceutical Chemist, Goodmayes, Ilford.

MANAGER wanted for business in market place; qualified, with view to succession if desired; ineligible for Army, or discharged soldier. Apply 58/25, Office of this Paper.

MANAGING Assistant; qualified or unqualified; knowledge of Sight-testing an advantage; easy hours, no night or Sunday duty. Apply 58/21, Office of this Paper.

MESSRS. TIMOTHY WHITE CO., LTD., Chemists, Portsmouth, require a capable Pharmacist (male or female); easy hours; good and progressive salary, with excellent prospects; free removal.

PART-TIME; unqualified lady or gentleman; few hours in evening or afternoon. Full particulars, salary, and photo (if possible). Apply H. E. Matthews, Ltd., 66 Kennington Park Road, S.E. 11.

QUALIFIED Manager required for South Devon seaside business; exempt from military service. State age, height, experience, references, etc., with salary required (house rent and taxes free), to Holman, Ham & Co., Ltd., Market Street, Exeter.

QUALIFIED young man, single and rejected, required immediately; permanent berth, with good prospects of advancement. State age, salary required, and when at liberty, "H. L." (55/345), Office of this Paper.

QUALIFIED Manager for country business, West Riding; capable, energetic, comfortable berth; discharged or elderly man; no Sunday duty. Apply, stating terms (outdoors), and references, 58/19, Office of this Paper.

REQUIRED, lady Counter Assistants in large West-End establishment; used to Druggist Sundries, also Perfumery articles; hours of work 8.45 to 6 o'clock, 1 o'clock Saturdays. Apply, stating full particulars of past experience and salary required, etc., to "L. J." Manager, Drug Department, 105 Victoria Street, S.W. 1.

SMART Assistant wanted (soon); must be quick, neat, and accurate Dispenser; good Counterman, and of all-round experience; near London; good wages; short hours; every consideration to a competent and trustworthy man. Apply, with full particulars, to 58/5, Office of this Paper.

UNQUALIFIED Assistant wanted; ineligible; good berth for suitable man. State age, reference, and salary in first letter, Taylor, Gibson & Co., 17 Bigg Market, Newcastle-on-Tyne.

WANTED, qualified Branch Manager for Light country business; good salary. State experience, etc., Topping Bros., 31 Church Street, Preston.

WANTED (immediately), Locum. State age, salary required (outdoors), and give reference, J. B. Davis, Church Hill, Lynton.

WANTED (at once), lady Dispenser and Assistant in good-class trade; must possess Hall qualification; no Sunday duty. Please send age, references, experience, and salary required to Percy G. Richardson, Pharmaceutical Chemist, Dudley, Worc.

WANTED, Assistant; outdoors. Apply, stating age, experience, and salary required, to L. Cameron, Pharmaceutical Chemist, Seaford, Sussex.

WANTED, capable Assistant; unqualified; N.H.I.; Dispensing and quick Counter trade; good salary to suitable man, married, and live over shop preferred. J. Newman, 9 North Street, Barking, Essex.

WANTED, part-time lady Dispenser for the Southampton Friendly Societies Medical Association; hours 10-12 and 6-8, Sundays off, and Wednesdays after 12. State age, experience, and salary required (outdoors), with copy of references, Secretary, 103 Clifford Crescent, Southampton.

WANTED, capable unqualified Assistant for Counter and Dispensing; must be ineligible for military service, and be able to give satisfactory references; hours 8.30 to 8, Wednesdays to 1, Saturdays to 9, no Sunday duty; outdoors. Apply Managing Director, Hodders, Ltd., 5 Nelson Street, Bristol.

WANTED, Assistant (outdoors) in a Light General Retail business; hours 8.30 to 7.30, no Sunday duty. W. H. Jones, Chemist, Mountain Ash.

WANTED (soon), Assistant (lady or gentleman) with practical Dispensing knowledge, and with experience in the general business of a good-class Pharmacy. Apply, stating particulars and salary desired, to E. L. Slade, 3 Station Parade, Kew Gardens.

WANTED, qualified for good-class Chemist's business; references essential; outdoors; salary £3 15s. Apply 58/23, Office of this Paper.

YOUTH or young lady required for a good-class Retail and Dispensing business. Terms upon application to A. Thresh, Pharmacist, Buxton, Derbyshire.

WHOLESALE.

Price-lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box numbers being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

LANCASHIRE Manufacturing Chemists would be pleased to consider applications from experienced persons with Pharmaceutical training, to take charge of works with steam plant. State full experience and salary required, 55/26, Office of this Paper.

ASSISTANT, capable and thoroughly trustworthy, for responsible position by a Birmingham Wholesale Chemist; ineligible; permanent position to suitable man. State if qualified or not, salary required, experience, and fullest particulars first letter, to 57/30, Office of this Paper.

DRUGGISTS' SUNDRIES.—Warehouseman required, with good knowledge of Surgical Instruments and accessories, to take charge of department. Apply, giving full particulars in confidence, stating age and salary required, to Hatrick, 70 St. John Street, E.C. 1.

EXPERIENCED Working Forewoman required to take charge of Wet and Dry Counter; permanency offered. Write in strict confidence, stating experience, age, and wage, to 37/2, Office of this Paper.

EXPORT Packer required for City Wholesale Druggists; previous experience essential, and free from military duties. Apply by letter, giving full particulars and salary required, to "Drugs" (22/28), Office of this Paper.

EXCELLENT opening with large Chemical Manufacturers in East London for a well-educated, intelligent business girl; shorthand, typing, quickness at figures, and slight knowledge of French—essential; really good prospects for a capable business woman. Apply 18/60, Office of this Paper.

JUNIOR wanted for Drug Counter. W. A. Wharram, Ltd., Wholesale Chemists, 115 Vicar Lane, Leeds.

LABORATORY Assistant wanted. Baiss Bros. & Co., Ltd., 175 Grange Road, Bermondsey, S.E. 1.

MAN with experience of Drug Trade, to supervise Export Packing department. Apply, with full particulars as to age and experience, to C. S. & Co., 673 Commercial Road East, E. 14.

MANAGER and Buyer wanted for Wholesale and Retail Chemist's and Drysalter's business in Manchester; state qualification and experience; treated in strict confidence. Reply 52/23, Office of this Paper.

MANUFACTURING Wholesale Druggists (provincial) require the services of a thoroughly reliable and experienced (Drugs) Works Chemist, not necessarily qualified; the position is suitable to one looking for permanency and a financial interest; applicants must give full particulars in reply. Apply 55/260, Office of this Paper.

PERFUMERY, SOAP, AND TOILET PREPARATIONS.—Required, gentleman, preferably middle-aged, with initiative and competent to take control of small Soap-making Plant and Perfumery Department; permanency and good prospects to the right man. Apply 22/47, Office of this Paper.

PILL Maker wanted. Ayrton, Saunders & Co., Ltd., 34 Hanover Street, Liverpool.

REPRESENTATIVE required for provinces, side line, good commission, for a well-known Eau de Cologne; large connection. State fullest particulars and ground covered. Apply 20/24, Office of this Paper.

REPRESENTATIVES required, whole time services, to call on Chemists and allied trades. Apply, in writing, giving full particulars as to age, experience, and salary required, to F. S. Cleaver & Sons, Ltd., Twickenham, Middlesex.

REQUIRED, Wet and Dry Counter hands; also Packer; good wages given. Apply 22/49, Office of this Paper.

SURGICAL INSTRUMENTS.—Warehouseman required, with good knowledge of Surgical Instruments and Accessories, to take charge of department. Apply, giving full particulars in confidence, stating age and salary required, to Hatrick, 70 St. John Street, E.C. 1.

TYPIST wanted for invoicing. Write, stating particulars, to Secretary, May & Baker, Ltd., Battersea, S.W. 11.

WANTED, young lady, age about 25, as Typist, Bookkeeper, and to generally assist in packing room. Apply The Kraska Co., Ltd., 7 Blenheim Street, New Bond Street, W.

WANTED, Drug and Chemical man, acquainted with foreign trade. Write, with full details, salary, etc., to "Trade" (20/8), Office of this Paper.

WANTED (at once), Laboratory Assistants, Drug Counter hand, Grinders, Pill and Tablet makers, for Lancashire firm; ineligible for Army service. State fully experience and wages required, 55/261, Office of this Paper.

WANTED, expert female Filing Clerk; one experienced in Drugs and Chemicals preferred. Address, giving details, to "A. P." (59/37), Office of this Paper.

WELL-KNOWN firm, having a well-advertised Proprietary to introduce to Chemists, desire a Representative for Yorkshire (West Riding in particular); commission only 15 per cent. on first order, 10 per cent. on repeats. Apply 55/340, Office of this Paper.

SITUATIONS OPEN.

(Colonial, Indian and Foreign.)

PARIS.—Capable Assistant, qualified preferred, for high-class Pharmacy; knowledge of French an advantage; no Sunday or night duty; outdoors. Replies, with photograph, experience, and references, to Parilond, 5 Rue de la Paix, Paris.

RANGOON.—E. M. de Souza & Co. require qualified Assistant; ineligible; about 25; salary 300 rupees per month 325/350; three years' agreement; good prospects; passage paid out and home. Apply E. M. de Souza & Co., 44 Holborn Viaduct, E.C. 1.

SITUATIONS WANTED.

1s. for 12 words or less; 6d. for every 10 words or less beyond, prepaid.

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 6d.

[HOME.] RETAIL.

ASSISTANT, 23, eight years' good-class Dispensing and Counter experience, desires change; permanent. Apply 55/25, Office of this Paper.

ASSISTANT or Manager; qualified; first-class all-round experience and splendid references; married; B3; country preferred. "J. F.," 90 Southfield Road, W. 4.

ASSISTANT; unqualified; mixed business; country preferred; active; over military age. Apply 57/37, Office of this Paper.

BIRMINGHAM DISTRICT.—Assistant (junior) seeks berth; accurate Dispenser; Wholesale preferred; Army discharged. Apply 57/4, Office of this Paper.

BRIGHTON.—Assistant; 25 years' experience; unqualified. "Referentia" (55/22), Office of this Paper.

BRIGHTON.—Relief Wednesdays 3 p.m.; Dispensing, Counter; experienced. Please address replies to "Bromoform" (57/23), Office of this Paper.

BRISTOL OR DISTRICT.—Assistant; just discharged from Army; married; first-class experience in Dispensing. What offers? In applying state salary, 55/33, Office of this Paper.

BRISTOL.—Lady Dispenser (Hall) desires situation; seven years' varied experience. Griffiths, 1 Granville Place, King's Down.

DISENGAGED March 8th, Locum; permanency; reasonable terms. Chemist, 17 Regent Square, W.C. 1.

DISPENSER, Extractor, etc., seeks situation middle of March; single; abstainer; reliable. Apply 55/30, Office of this Paper.

DISPENSER requires post; over five years' experience with Chemist; good experience with National Health Insurance Dispensing and Counter work. 2 Selwyn Road, Upton Manor, E.

DISPENSER (Doctor's) seeks permanency; ineligible; unqualified; well up in Dispensing, etc. "B.," 24 Bristol Road, Forest Gate, E.

ELDERLY gentleman (active) requires situation (at once) in Light Retail and Dispensing; short hours; thoroughly experienced in all branches of the trade, including Seeds and little Photography; good references; five years in last situation; near Derby or surrounding country preferred. Particulars, apply Furnival, c/o Mrs. Taylor, Futterley Hill, Ripley, Derby.

ENERGETIC competent Assistant; over military age; abstainer; Photographic and Optical knowledge. J. D. Evans, 50 King Street, Neath, Glam.

EVENINGS from 5.30; qualified. "S.," 42 Dean Street, W. 1.

JUNIOR Assistant, all-round experience, disengaged, for Sheffield or district. Apply J. H., 20 Bank Street, Sheffield.

JUNIOR; good all-round experience; well up in Photography; well recommended. "Tablet" (58/40), Office of this Paper.

LADY Dispenser (Hall), keep books, experienced, good references, wants post. Apply 58/1, Office of this Paper.

LADY, widow, aged 40, seeks re-engagement as Housekeeper to Chemist; little knowledge of the business; Window-dressing, putting up Stock, Photography, etc.; good general business experience; 3½ years' reference. Reply "M." (51/23), Office of this Paper.

LADY Dispenser, part Hall, requires post with Chemist in or near Windsor; outdoors. Miss Donald, 3 St. Mark's Road, Windsor.

LADY, Hall certificate, over two years' experience (Counter and Dispensing), desires post; Chemist, Doctor, or Institution; London, preferably W. or S.W. Write "D. K.," Haslemere, Caversham Road, Merton, S.W. 19.

LEWIS WING, LTD., Chemist, Weston-super-Mare, can recommend a lady Dispenser; three years' experience; Chemists only; South Coast; disengaged after Easter. Full particulars, "A.," 8 The Boulevard, Weston-super-Mare.

LOCUM; 54; experienced; reliable; abstainer; disengaged; town or country. J. S., 139 Linthorpe Road, Middleceabrough.

LOCUM; unqualified; age 51; active, reliable, good appearance and address, total abstainer; careful Stockkeeper; all-round experience; moderate terms. "Gentian" (55/18), Office of this Paper.

MANAGER; 42; qualified; experienced; Coast or Birmingham. 12 Cecil Road, Gravelly Hill, Birmingham.

MANAGER; qualified; elderly; full experience; active; good address; disengaged; Midlands preferred. Apply 55/13, Office of this Paper.

MANAGER; Locum; Major; 46; disengaged; experienced; out-doors. "T.," 139 Prince Street, Swindon, Wilts.

MANAGING ASSISTANT (30), capable taking charge, all-round experience, unqualified, Grade III., desires permanency early in May; West Country town preferred, or seaside country town. Particulars and salary offered to "Radix" (57/33), Office of this Paper.

MINOR QUALIFICATION.—Lady offers her services for week or ten days as Locum; salary £4 4s. per week and railway expense; used to mixed business; Northern Counties preferred. Apply 55/38, Office of this Paper.

ONE week; experienced Locum; qualified; disengaged; seven days only this month; can arrange dates. "P.," 54 Richmond Road, Abergavenny.

PART-TIME or moderate hours; rejected; first-class London experience; competent. Apply 54/9, Office of this Paper.

PART-TIME; Saturday afternoons, or one or two evenings weekly; experienced; Peckham district. Apply 56/2, Office of this Paper.

PART-TIME; evenings and Sundays, also one afternoon weekly. "M.P.S." (56/4), Office of this Paper.

QUALIFIED; elderly, active, and married; best-class experience and good Prescriber. Apply 54/6, Office of this Paper.

QUALIFIED; 22 years' experience, country, town, and West-End; Dispensing and Retail; married. "W.," 24 Handsworth Road, Philip Lane, N. 15.

QUALIFIED; Manager; Senior; ineligible; state salary; disengaged. Apply 58/27, Office of this Paper.

SATURDAYS.—Whole or half-day; Dispensing or Counter; occasional Sunday evening if required. "M.P.S.," 25 Eekes Road, Clapham Junction, S.W. 11.

SENIOR or Manager; over military age; all-round experience; tall, active; country preferred; unqualified. S. Blakeley, High Street, Uppingham.

UNQUALIFIED Doctor's Dispenser, Bookkeeper, requires post with Chemist; desires to take up Counter work; 44; married. Dyett, 135 Hill Street, Peckham, S.E.

WORKS (WEST RIDING).—Assistant (unqualified) with first-class all-round experience; ineligible. Apply 55/160, Office of this Paper.

46; well recommended. Full particulars, please, "U.Q." (53/25), Office of this Paper.

WHOLESALE.

Price-lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box numbers being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

BELFAST Druggist (retired), over military age, desires Agency (Ireland); commission only; experienced Salesman; wide connection Toilets, Foods, Packed Goods, Proprietary; extensive sales assured; first-class firms. Apply to 56/30, Office of this Paper.

CHEMIST, office and road experience, can introduce profitable side lines, seeks position with interest. Apply 59/29, Office of this Paper.

COST CLERK.—Lady requires post in London; Wholesale house or otherwise; good experience; holds the Hall qualification; disengaged shortly. Apply 58/36, Office of this Paper.

DISCHARGED, with seven years' Retail experience, seeks outdoor occupation; would consider any offer; reliable and adaptable. "J.," 26 Dudley Road, Southall, W.

DUBLIN Traveller, age 49, offers his services; Packed Goods, Drugs, Sundries; well introduced amongst almost entire Retail trade; exceptional references. Apply 56/32, Office of this Paper.

INDOOR or Representative; London district preferred; advertiser, ineligible, fully competent to undertake either of these positions; undeniable references; well known. Apply "C." (58/4), Office of this Paper.

P.H.C. desires position as Analyst, Works Chemist, or Manager; 20 years of most varied experience, including Research, Synthetic Preparations, Bacteriology, etc., in connection with a "Standard Pharmaceutical Work." "H. J.," 101 Roslyn Road, Tottenham, N. 15.

PHARMACEUTICAL LABORATORY.—Manager or Foreman, with first-class practical experience; Galenicals and Proprietary, and general work of a Steam Laboratory; ineligible. Apply 55/16, Office of this Paper.

REPRESENTATIVE, extensive connection Chemists, London territory, seeks engagement; Proprietary article preferred. Apply 55/7, Office of this Paper.

YOUNG lady, nearly 16, experienced packing, disengaged. "S.," 41 Queen's Road, Mortlake.

1918 THE great push is coming, therefore be prepared for competition. I am the man to sell packed goods and Druggist Sundries; ground covered, London to Glasgow; commission basis only. I will satisfy you in one week. Apply 58/37, Office of this Paper.

MISCELLANEOUS.

MCADAM & TUCKNISS, Stock and Share Brokers, Bank Chambers, Blackheath, S.E. Established 1898. Telephone: 81 Lee Green.

Shares for Sale (free of commission, subject).—180 G. B. Kent 5½ Prefs., 16s. 3d.; 80 W. B. Fordham, 11s. 9d. c.d.; 300 International Plasmion, 7s. 7½d.; 20 Lewis & Burrows Ord., 9s.; 100 Mazawattee Tea, 3s. 6d.; 100 Mellin's Food 6½ Prefs., 15s.; 400 Tower Tea Pref., 13s. 10½d.

Wanted (subject).—Idris Debs. and Prefs.; Wright Layman Pref.; Allenbury Prefs.

Every effort made to effect business for Buyers and Sellers in all Stocks and Shares. Bankers, London County and Westminster.

COTTON-WOOL, white, absorbent, interleaved, one pound parcels, 1 cwt. at 2s. 3d. per lb.; 2 cwt., 2s. 2½d.; 5 cwt., 2s. 2d.; carriage paid, cash with order; wrappers charged 3s. 6d. per cwt., and returnable; sample for stamp. J. Mills, Chemist, Platt Bridge, Wigan.

SHOWCASES AND SHOP FITTINGS.—Several fine Silent Salesman Showcases and Counters; quantity of useful Shop Fittings; low prices. Write inquiries, Philip Josephs & Sons, Ltd., 93 Old Street, London, E.C. 1.

SECOND-HAND CHEMISTS' FITTINGS.—We have an exceptionally fine selection of these in all sizes; prices are right, and goods are in first-class condition; we shall be pleased to supply particulars and prices. Call or write, RUDDUCK & CO., 262 Old Street, London, E.C.

WANTED, Square or Round Tin Boxes, new or second-hand, for powdered colours; size 1 lb. and upwards; good prices given; cash payment. Williams Bros. & Co., Honnslow.

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One halfpenny per word with name and address. One penny per word if we register the address and attach a number.

No advertisement inserted for less than 6d.

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"TIMES" History of War, 14 vols. to date, 13 bound, 5s. a volume, or reasonable offer. Castle, Homeleigh, West Ewell, Epsom.

DRUGS AND CHEMICALS.

POT. Carb., 14 lb., for 21s. Stead, Duke Street, Brighton.

FOUR pounds Pot. Permang. Best offer. Hall, Chemist, Pinner.

27 LB. Solazzi Juice, 3-lb. lots; post paid 12s. P.O. McGlashan, Chemist, Alyth.

WHAT Offers? 50 oz. Quinine Sulph., 8 cz. Strychnine Crystal, 1 lb. Pulv. Opii Turc., 84 lb. Shellac Anrant. Thexton, Chemist, Kirby Lonsdale.

POTASSIUM Bromide, 4 lb., 35s.; Quinine Sulphate, 8 oz., 27s. 6d.; Liquorice Juice, 5 lb., 19s.; Sodii Salicyl., 4 lb., 33s.; 3 × 100 Tabloid Sulphonaf gr. v., 19s.; 8 oz. Ol. Cubeb., 17s.; Phenacetin, 8 oz., 21s.; B.P., post paid, Forryan, 40 Duncan Road, Leicester.

OPTICAL AND PHOTOGRAPHIC.

COOKE Anastigmatic Lens, F.4.5, 7-inch focus, in perfectly new condition, £5; also Houghton's 15 × 12 Daylight Enlarger, with carriers to ½ plate; obtained to order, but not called for; cost £3 13s. 6d. net, accept £2 13s. 6d. Stead, Duke Street, Brighton.

MISCELLANEOUS.

WHAT offers for eight dozen 6-oz. lined Parcel Post Boxes? Sample post free 5d. Sage, Lostwithiel, Cornwall.

ABOUT 500 plain bottle Cartons, 7½" × 2¾" × 1¾"; assorted colours. What offers? Kernick & Son, Ltd., 16 Moira Terrace, Cardiff.

WHAT Offers? 4 gross Wood Unions and 6 gross Glass Tubes for feeders; 1½ lb. Oil Stavesacre, and 4 lb. Sugar of Milk. Lumley, Coleman Street, Wolverhampton.

ROBERTS Filling Machine, equal new; Tube Filling Machine, little used; Tincture Press, small; Dressings Steriliser, also Instrument Steriliser, best condition. Jackson, Pownall Square, Liverpool.

WANTED.

WANTED, Colgate's Quinol, No. 1. Powell & Co., Leith.
DISPENSING Scales in good order. Stead, Duke Street, Brighton, "C. & D." posted Saturday. Swanson, 27 Waverley Road, Kenilworth.

TABLET Machine; 'Stokes' Eureka. Apply 54/23, Office of this Paper.

PROTAGOL; original 1-oz. bottles. Apply 58/32, Office of this Paper.

TOOTH Brushes; all kinds. Quantity and price to 59/31, Office of this Paper.

WANTED, 1 oz. original package Medinal. Smyth, Ruxhall, Tunbridge Wells.

NO. 0 and No. 1 Eye Lenses wanted; convex and concave. State price, Pitt, Chemist, Barnstaple.

WANTED, Pill-piping Press and Pill Rounder, for power. Apply 19/670, Office of this Paper.

WANTED, Thiozol Tablets (Roche); also Midwifery Bag and contents. McMullan, Chemists, Larnie.

WANTED, "Chemist and Druggist Diary," 1918. Pope, Roach & Son, 8 St. James's Street, London, S.W.

OPTICAL.—Wanted, cheap, second-hand Curleside Trial Frame. Replies to Dunphy's Pharmacy, Bantry, Cork.

JOB Line Tins wanted, suitable for Boot Polish, etc. Address "Brytenup" Polish Works, Marsh Lane, Preston.

WANTED to buy, 1½-oz. Tall Vials for immediate delivery; state quantity and price (letter). Apply 17/59, Office of this Paper.

WANTED, Biconvex, Periscopic, and Meniscus Lenses. State quantity size, and price, Hebditch, 18 Christ Church Road, Doncaster.

WANTED, Radium Salt, pure or Residues, old Applicators, etc. Apply Harrison Glew, Radium Laboratories, 156 Clapham Road, S.W. 9.

WANTED, Toilet Rolls, Bronco or similar, Alypin Bayer, Sanmetto. State price and quantity offered to J. W. Moorhouse, Pharmacist, Barnsley.

B.P. Codex and Pharmaceutical Formulas in good condition; also 1½ oz. ribbed Stipendium Pots. Chemist, 67 St. Paul's Avenue, Cricklewood, N.W. 2.

PILL Machines wanted to cut 36 × 2-grain and 24 × 5-grain Pills; also one to cut large Dog Pills. Apply 55/32, Office of this Paper.

THE "Veldt" Laboratory, Louth, England,
are purchasers of surplus Glycerin in large
or small quantities. Offers invited.

WANTED, Nests of Drug Drawers, any condition; Counter Cases, Roll-check Till, Fittings for Shop. Windebank, 79 Bevie Road, Portsmouth.

OPTICAL books, Minor, Major, Chemists' books; send prepaid for valuation, cash offers per return. Gower, Bookseller, 41 Voltaire Road, Clapham, S.W.

YOUR STOCK OF OLD CAMERAS OR Unsaleable Ones.

SELL them to us for cash, also any other unsaleable photographic goods. Why not clear your shelves now to meet the demand? There will never be such an opportunity again.

We buy small lots, single articles, or dealers' entire stocks. We pay highest possible prices, and give

Two-thirds retail price for Vest Pocket Kodaks (R.R. and Anastigmat Models), Watch Pocket Carbines, Nos. 0, 1, and 2 Brownies, Kodak Film Developing Tanks (except V.P.K.), No. 2 Folding Brownies, also Vest Pocket Kodak and No. 2 Brownie Spools.

We'll buy your fine apparatus by Newman & Guardia, Ross, Adams, Zeiss, Goerz, etc., and give very high prices.

All remittances immediately. Goods carriage paid if returned.

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"I have yours with cheque £3, and enclose receipt herewith. I consider your dealings exceedingly fair, prompt and satisfactory. It will be a pleasure to recommend friends to you."

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"I am in receipt of your letter, for which I thank you. I shall be pleased to accept 10/- for the camera. It is more than I expected to get."

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C. W.

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($\frac{1}{2}$ grain 330 in 1 guaranteed).

Packed in Boxes of

1,000	18/-	per 1,000
5,000	17/10	" "
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One is equal to a teaspoonful of sugar.
14/- per 1,000. 13/9 per 5,000.

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DISPENSING BOTTLES & PHIALS.

CLEAR BLUE TINTED, plain or graduated.
3 and 4 ounce. 6 and 8 ounce.

WHITE PHIALS, plain or teapocns.
1 ounce. 1 1/2 ounce.

Lowest
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BLUE LOTION BOTTLES, all sizes.
CORKS, Superior Quality. No advance in price.
6 and 8 ounce ... 1s. per gross, in 6 gross bags.
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Delivered free within 7 miles, and to certain stations. Particulars on application.

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Good Prices given for Stokes' or Colton Machines.

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Quick Seller. Big Profits. Over 40 Years' Reputation.
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Full Strength, $\frac{1}{2}$ gr., 330 in 1.

Per lb. - **120/-**

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